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ABSTRACT

This document summarizes the State Performance Reports for programs funded under Chapter 1 of the Education Consolidation and Improvement Act for 1986-87. Reports are submitted annually by State Education Agencies (SEAs) to provide information on Local Education Agency (LEA) and State Agency Neglected or Delinquent (SAND) compensatory education programs. The following information is reported for the LEA programs: (1) number of participants, by year of birth, racial/ethnic classification, and grade by public/nonpublic designation; (2) types of service provided, by institutional designation; (3) number of staff; and (4) achievement. The following information is reported for the SAND programs: (1) number of participants, by gender, age group, racial/ethnic classification, and institutional designation; and (2) types of services provided, by institutional designation. The following findings are discussed: (1) 4,594,761 public school students and 138,225 nonpublic school students participated in LEA programs; (2) LEA programs received $3 billion in allocations; (3) 56,236 students participated in the SAND programs; and (4) SAND programs received $31.2 million in allocations. Statistical data are included on 61 tables and 19 graphs. The appendices comprise the following: (1) a discussion of the research methodology; (2) national tables of participants by grade for 1985-86 and 1986-87 and the percent change in number for each grade; (3) state-by-state tables of selected participation information for 1979-87; (4) additional tables of achievement information for 1986-87; (5) data on the number of students tested and the numbers of states reporting achievement data; and (6) achievement information expressed in normal curve equivalents for 1986-87 and for the 8-year period from 1979-80 to 1986-87. (FMW)

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A SUMMARY OF STATE CHAPTER 1 PARTICIPATION AND ACHIEVEMENT INFORMATION FOR 1986-87

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A SUMMARY OF STATE CHAPTER 1 PARTICIPATION AND ACHIEVEMENT INFORMATION FOR 1986-87

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PREPARED FOR:

Office of Planning, Budget and Evaluation

U.S. Department of Education

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We are also grateful to the Chapter 1 Coordinators in each state for their cooperation and assistance in verifying the information submitted on the State Performance Reports for 1986-87.

Several members of the Decision Resources Corporation staff deserve our special recognition, including Leslie Anderson and Susan Hennessy for their unfailing enthusiasm in contacting the State Chapter 1 Coordinators, Allison Henderson for providing invaluable technical assistance, Julie Daft for revising the data base, Beth Sinclair for assembling tables and figures, and Saunders Freeland for her expert typing of this report.

EXECUTIVE SUMMARY

This document summarizes the State Performance Reports for ECIA Chapter 1 which are submitted annually by State Education Agencies (SEAs). These reports provide information on Local Education Agency (LEA) and State Agency Neglected or Delinquent (N or D) compensatory education programs funded through Chapter 1. The reports detail the number of educationally disadvantaged students served, the demographic composition of those students, staff patterns, the types of services received, and the achievement rates in basic skills areas.

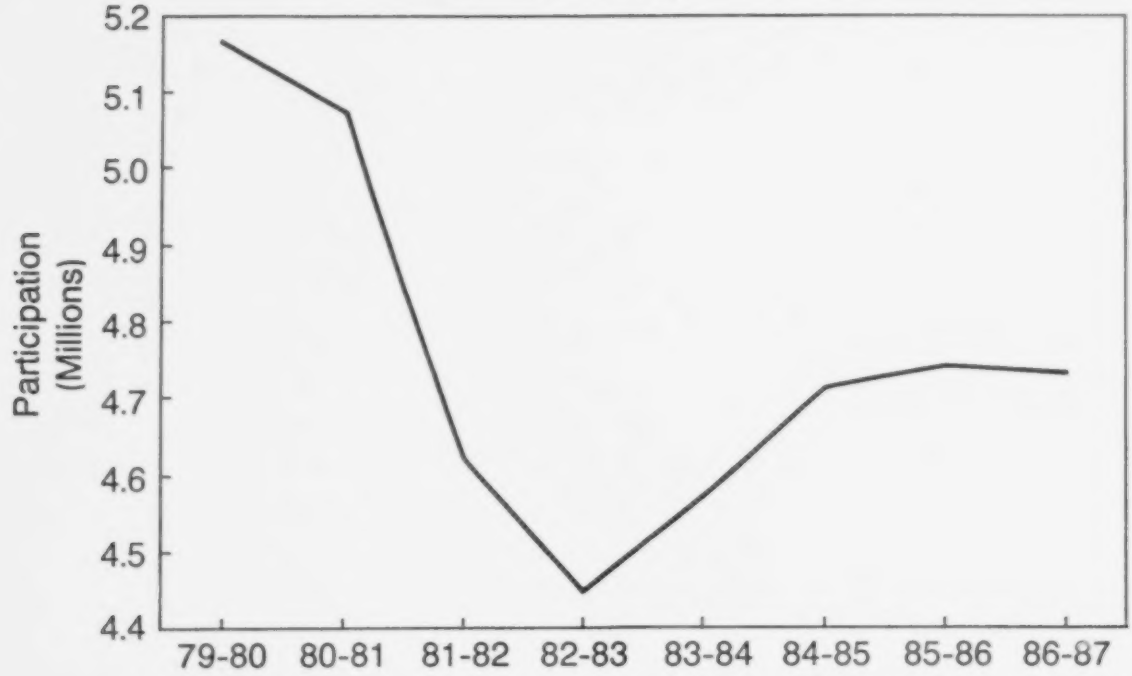
In examining the national participation figures presented in this document, there are several data cautions to be noted. These factors are discussed at the end of the Executive Summary.

PARTICIPATION PATTERNS FOR CHAPTER 1 LEA PROGRAMS

- After initial declines (1980-1983) in the number of students participating in Chapter 1, the number has remained stable at the 4.7 million level. (Chart 1)

Chart 1

Chapter 1 Participation
1979—80 through 1986—87



- Public school participation decreased slightly from 1985-86 to 1986-87, while nonpublic school participation increased in the second year after the Aguilar v. Felton decision. (Charts 2 and 3)

Chart 2

Chapter 1 Public Participation
1979—80 through 1986—87

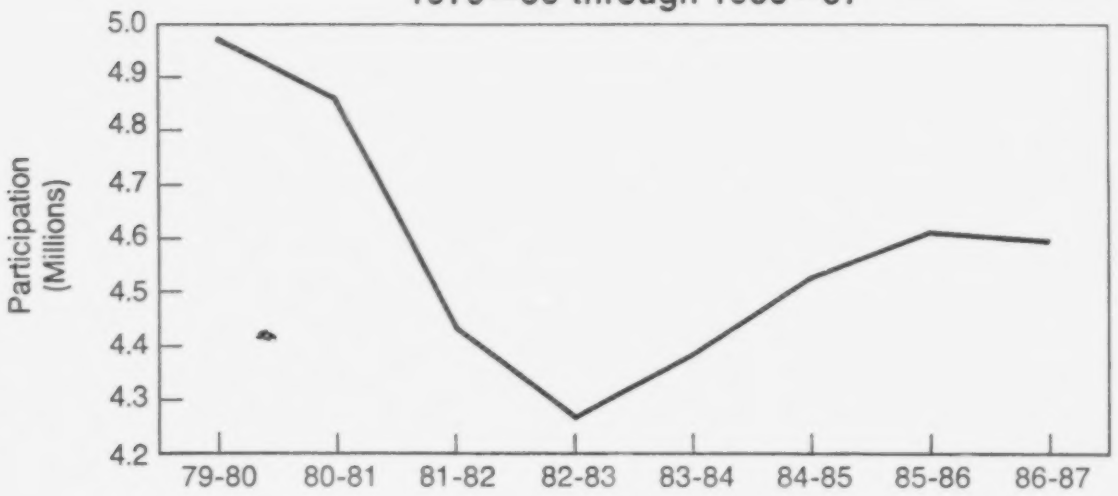
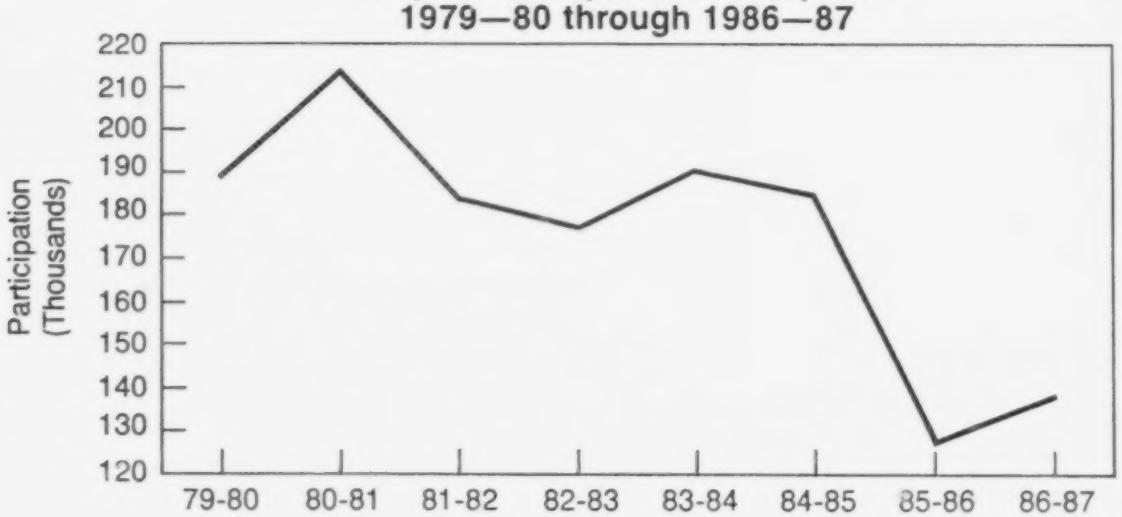


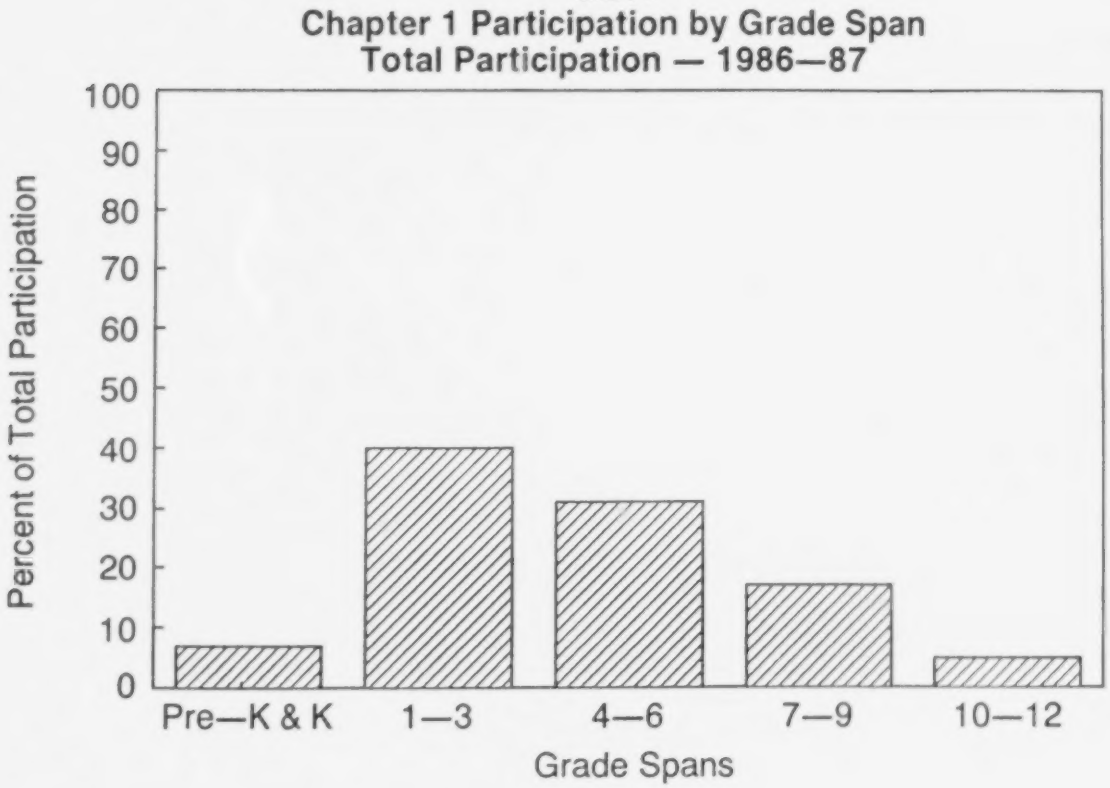
Chart 3

Chapter 1 Nonpublic Participation
1979—80 through 1986—87



- Both public and nonpublic participation in Chapter 1 continued to be concentrated in the elementary grades. (Chart 4)

Chart 4



- Three-fourths of the Chapter 1 participants received instruction in reading, and almost one-half of the participants received instruction in mathematics. Between 15 and 20 percent received other language arts or other instructional services. While there was a slight decrease in overall participation, in all areas of instructional services more students received instruction in 1986-87 than in 1985-86.

- Fewer participants received supporting services than instruction in 1986-87. Unlike instructional services, the number of Chapter 1 students receiving supporting services declined in every category from 1985-86 to 1986-87.

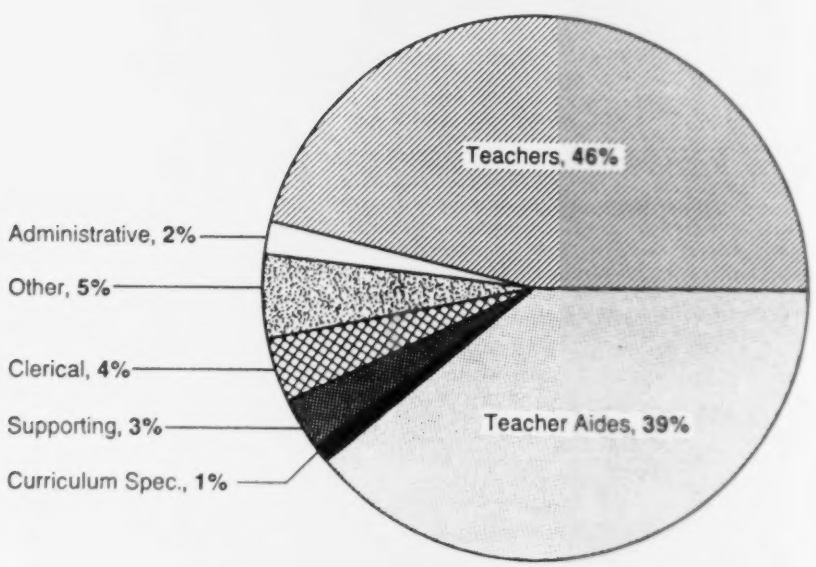
- The number of public school students receiving Chapter 1 services in 1986-87 declined slightly in all categories of instructional and supporting services, except other language arts. In contrast, the number of nonpublic students receiving Chapter 1 services increased significantly in most service categories.

- Services for neglected or delinquent students increased significantly in 1986-87, due, in great part, to the increases reported in California.

- Approximately one-half of the staff funded by Chapter 1 in 1986-87 were teachers. Teacher aides made up 39 percent of the staff funded by Chapter 1. By state, the percentage of teachers varied from 15 percent to 85 percent, and the percentage of teacher aides varied from 10 percent to 79 percent. Teachers and teacher aides comprised 85 percent of the total staff funded by Chapter 1 dollars. (Chart 5)

Chart 5

Chapter 1 FTE Staff by Classification
1986-87

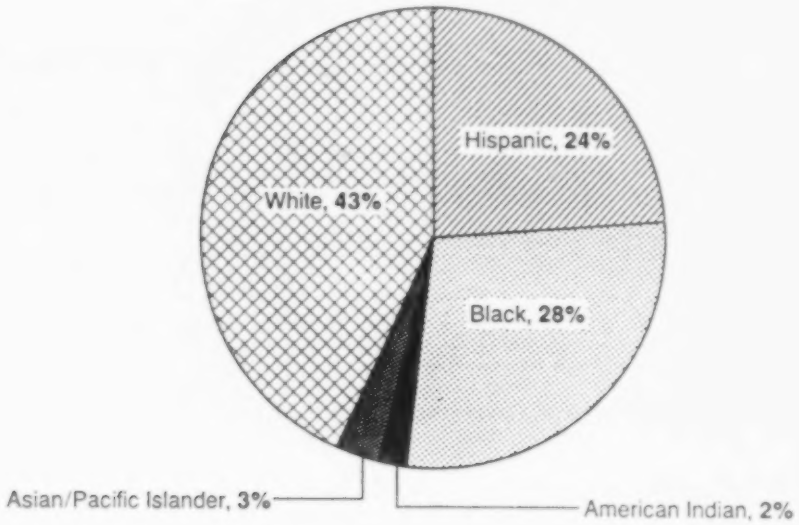


- The number of total staff decreased 5 percent from 1985-86 to 1986-87, with slight decreases in most categories and a larger decrease in curriculum specialists.

- In 1986-87, 57 percent of Chapter 1 participants were nonwhite - 28 percent were black, 24 percent were Hispanic, 3 percent were Asian or Pacific Islander, and 2 percent were American Indian or Alaskan Native. (Chart 6)

Chart 6

Chapter 1 Participants by Racial/Ethnic Classification, 1986-87



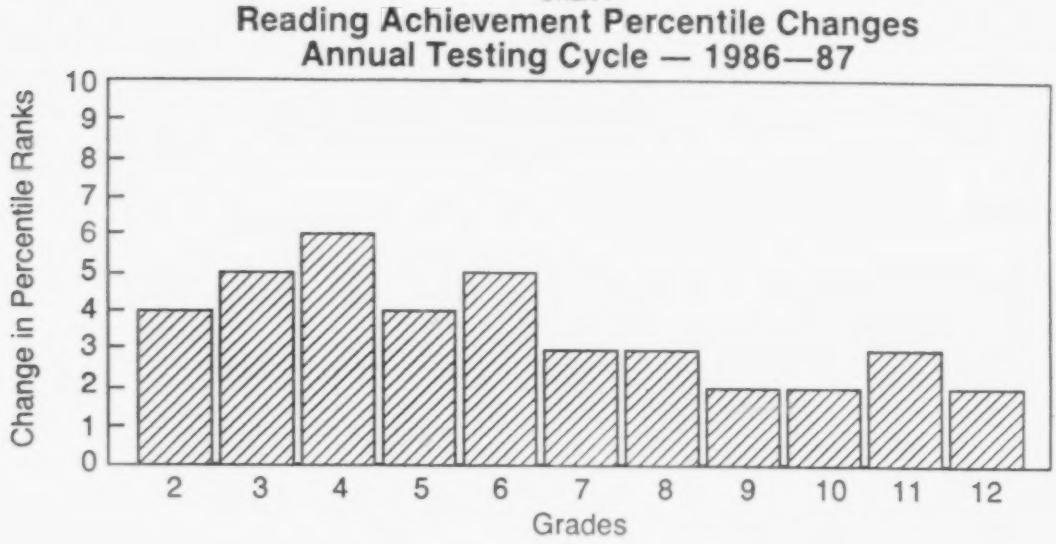
- In 1986-87, 55 percent of Chapter 1 participants were males, and 45 percent were females.

ACHIEVEMENT INFORMATION FOR CHAPTER 1 LEA PROGRAMS

- Forty-nine states, Puerto Rico, and the Bureau of Indian Affairs reported achievement data in 1986-87 using the standard format formerly required under ESEA Title I. Forty-three states and the Bureau of Indian Affairs reported scores from an annual test cycle.

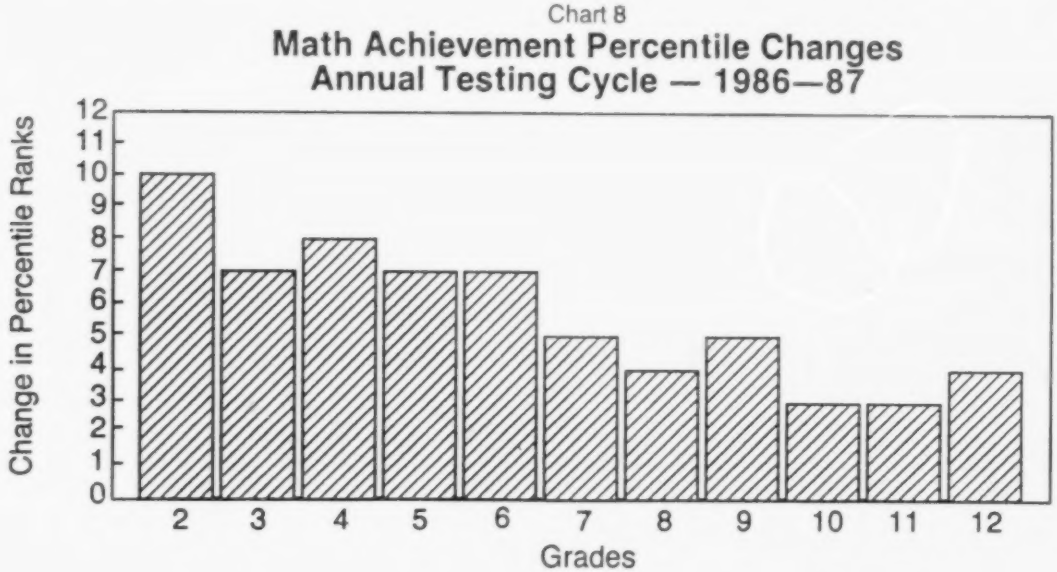
- For Chapter 1 students tested in reading on an annual cycle, increases from pretest to posttest percentiles were found in every grade. (Chart 7)

Chart 7



- For Chapter 1 students tested in mathematics on an annual cycle, increases from pretest to posttest percentiles were found in every grade. (Chart 8)

Chart 8



- Across all grades, the achievement results show consistency in the percentile changes from 1979-80 to 1986-87.

ALLOCATION AND COST INFORMATION FOR CHAPTER 1 LEA PROGRAMS

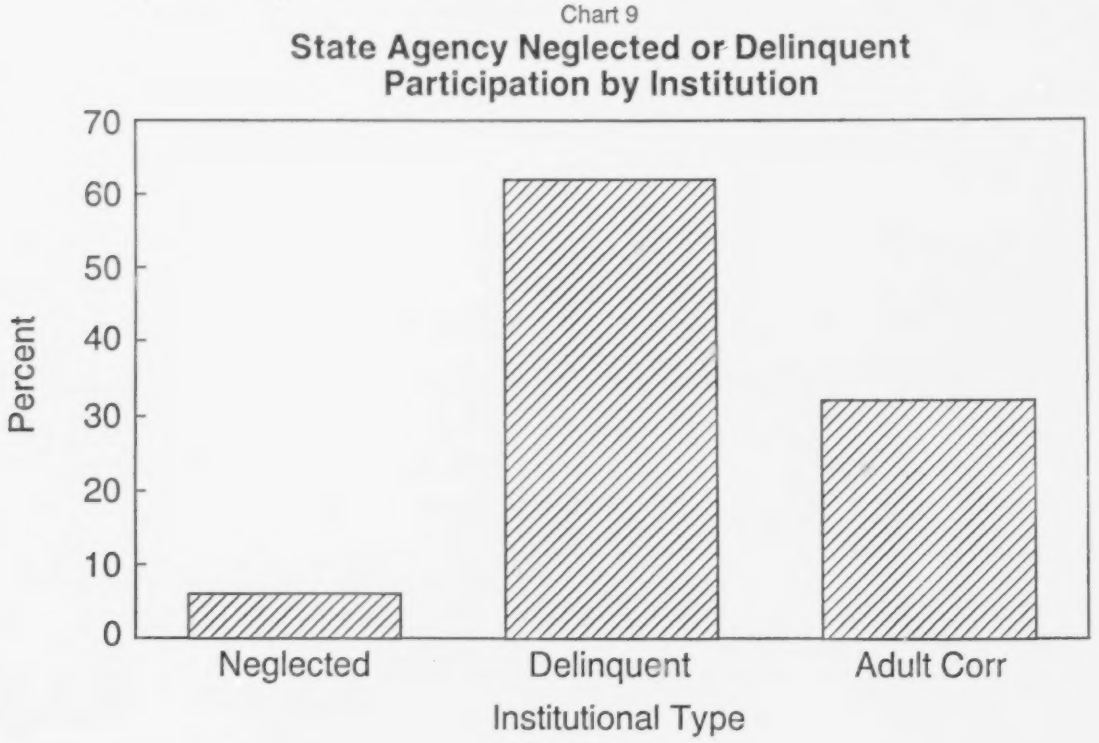
- Chapter 1 funding for 1986-87 was approximately $3.0 billion, a 4 percent decrease from the 1985-86 allocations.

- The Chapter 1 dollars per participant figure was $644 in 1986-87, a 4 percent decrease from the previous year's figure of $672 per participant. This figure represents the Chapter 1 allocation for 1986-87 divided by the number of Chapter 1 participants in 1986-87.

INFORMATION ON STATE AGENCY NEGLECTED OR DELINQUENT PROGRAMS FOR 1986-87

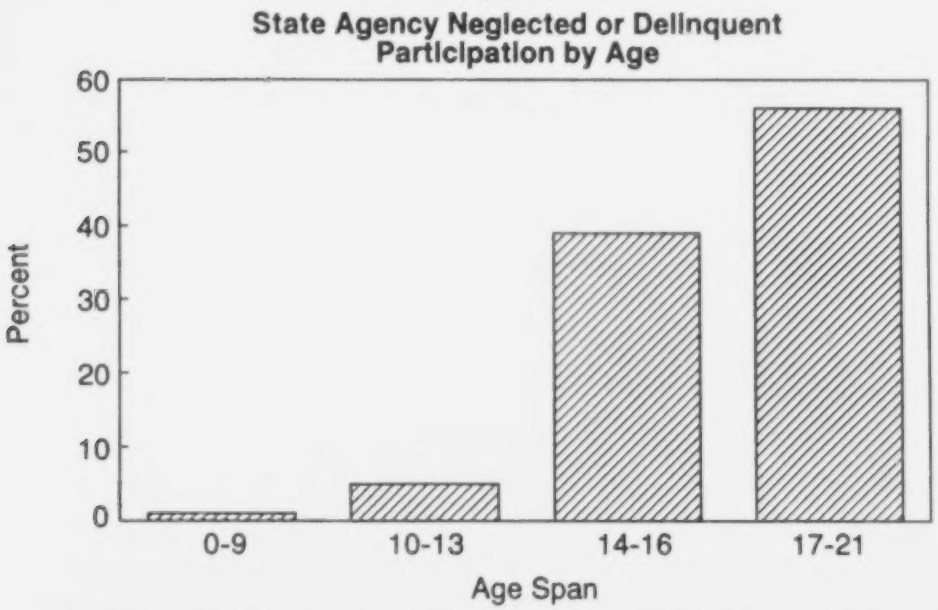
- Approximately two-thirds of the State Agency N or D participants were served in facilities for delinquents, and one-third were served in adult correctional facilities. Participants in programs for the neglected comprised 6 percent of the individuals served. (Chart 9)

Chart 9



- More than one-half of the State Agency N or D participants were 17 through 21 years old. (Chart 10)

Chart 10



- Almost three-quarters of the State Agency N or D participants received reading instruction, and two-thirds received mathematics instruction.

- Eighty-nine percent of the State Agency N or D participants were male, and 11 percent were female.

- Approximately one-half of the State Agency N or D participants were black, and approximately one-third were white. The remaining one-sixth were Hispanic, American Indian or Alaskan Native, and Asian or Pacific Islander.

- The allocations for Chapter 1 State Agency N or D programs in 1986-87 was $31.2 million.

NOTES

In examining the national participation figures in this report, three factors should be noted. First, 1986-87 was the first year following the large decline in nonpublic participation due to the Aguilar v. Felton decision. In 1985-86, there was a 31 percent decrease from 1984-85 in nonpublic participation in LEA programs. In 1986-87, when new mechanisms for serving nonpublic students were in place, the number of nonpublic

participants increased, but the level was still over 45,000 less than the total prior to Aguilar v. Felton.

The second factor to be considered is closely related to the first. In preparation for this report it was found that Puerto Rico had not included nonpublic participants in schools with religious affiliation in the total nonpublic participation counts. In 1986-87, Puerto Rico's total nonpublic participation in schools with religious affiliation was added to the national totals, but information on the breakdowns by gender, year of birth, race/ethnicity, grade, and service area could not be provided.

The third factor affecting the totals concerns the public participation and staffing figures for California. For the 1985-86 submission, an agreement was reached between the U.S. Department of Education and the California SEA to adjust the public participation and staffing figures because California reports combined counts of Chapter 1 students and students enrolled in the state's compensatory programs. This adjustment was made for the 1979-80 through 1985-86 school years, and reported in the 1985-86 summary report. However, during the submission of the 1986-87 State Performance Reports, it was found that the adjustment figures previously submitted by California were incorrect. Therefore, the California public participation and staffing figures for 1979-80 through 1985-86 were readjusted, and the 1986-87 information was adjusted in accordance with the most current adjustment figures.

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INTRODUCTION

Chapter 1 of the Education Consolidation and Improvement Act (ECIA) of 1981, formerly ESEA Title I, was designed to provide financial assistance to local education agencies to meet the special needs of educationally deprived children. In 1986-87, the program continued to be the largest program of federal education aid to elementary and secondary school students.

Evaluation requirements have been part of the law from its beginning, but states were not required to report to the federal government in a uniform way until 1979. Beginning with the 1979-80 school year, each State Education Agency (SEA) compiled reports from each of its school districts, or an approved representative sample of its districts, and submitted a state report to the U.S. Department of Education.[1]

This report summarizes the 1986-87 State Performance Reports for ECIA Chapter 1.[2] These performance reports provide information on Local Education Agencies (LEAs) and State Agency Neglected or Delinquent compensatory education programs. For the LEA programs, information is reported on the number of participants (by gender, year of birth, ethnicity, and grade by public/nonpublic designation), the types of services provided (by institutional designation), the number of staff, and achievement. For the State Agency Neglected or Delinquent programs, information is collected on the number of participants (by ethnicity, gender, age group, and institutional designation) and the type of services provided (by institutional designation).

The SEAs are required to submit participation information to the U.S. Department of Education in a standard format. Although achievement information may be reported in any format desired by the SEA, many SEAs continue to use the standard format that was required under ESEA Title I.

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[1]If a state sampled its school districts for reporting participation and staffing information, the inclusion or exclusion of districts in any reporting year may account for fluctuations in the figures from year-to-year. In 1986-87, only one state, Arizona, reported State Performance Report participation and staffing information based on a sample of school districts. In 1985-86, two states, Arizona and Georgia, reported State Performance Report participation and staffing information based on a sample of school districts.

[2]State Performance Reports were received from the 50 states, the District of Columbia, Puerto Rico, and the Bureau of Indian Affairs in 1986-87.

In addition to providing summaries for the 1986-87 school year, this report presents information for the LEA programs on changes from 1985-86 to 1986-87 for all data items, and trends on selected data items for the eight-year period 1979-80 through 1986-87.

Three factors affecting the national figures presented in this report should be noted. First, the 1986-87 school year is the first year following the massive decline in nonpublic participation due to the Aguilar v. Felton decision. Nonpublic participation increased in 1986-87, but the level is still well below the levels of nonpublic participation seen prior to Aguilar v. Felton.

Second, it was found that nonpublic participation counts reported by Puerto Rico have not included nonpublic participants in schools with religious affiliations. In 1986-87, these participants made up 70 percent of the total nonpublic participants.[3] The total nonpublic participation count for 1986-87 has been updated to reflect actual participation, however, the counts by the various breakdowns (gender, year of birth, race/ethnicity, grade, and service area) could not be provided.

Third, significant changes occurred in the counts of students participating in Chapter 1 programs in California. The background of these changes is as follows. Since the 1979-80 school year, the state of California has reported a combined figure of students in Chapter 1 programs plus those enrolled in state compensatory education programs. This combined figure overstated the actual number of Chapter 1 participants. To resolve this situation, in 1987 the U.S. Department of Education and the California State Department of Education reached an agreement to allocate only a portion of the total reported California numbers of participants and staff to Chapter 1, according to a formula based on the proportion of funding received from federal versus state programs.

In order to calculate the required proportions, California provided information on Chapter 1 and state compensatory program funding for 1979-80 through 1985-86. For a given year, Chapter 1 funding was added to state compensatory funding and that total was divided into the amount of Chapter 1 funding. The resulting percentage was then applied to the total reported number of students in order to estimate the number of Chapter 1 participants. Applying this formula, the proportions of Chapter 1 students in California ranged from 45.7 percent of the

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[3]Puerto Rico reported 2,997 nonpublic participants for 1986-87. The actual number of nonpublic participants was 10,013, 2,997 nonpublic participants in non-religious schools, and 7,016 nonpublic participants in religious schools.

previously reported total in 1979-80 to 50.4 percent of the reported total for 1985-86. These percentages were also applied to the reported numbers of staff.

During preparations for the 1986-87 report, however, it was discovered that the funding information supplied by the state on which the 1979-80 through 1985-86 pupil estimates were based had been incorrect. Using new funding information, percentages of students and staff participating in Chapter 1 were recalculated. These percentages ranged from 70.5 percent in 1979-80 to 77.2 percent in 1986-87.[4] This change increased estimates of Chapter 1 participants by an average of 175,000 students per year. The changes in California also changed national totals.

This current report is based on corrected figures for public participation and staffing for 1986-87 and previous years. Therefore, public participation and staffing figures in this report for California, and the nation as a whole, will not correspond to previous reports.

The report is organized into four chapters and six appendices. Chapter 1 presents the participation information for LEA programs for 1986-87, alone, in comparison with 1985-86, and as part of the trend from 1979-80. Chapter 2 provides the achievement information for LEA programs in 1986-87, alone and as part of the trend from 1979-80. Chapter 3 shows funding information for the Chapter 1 LEA programs, and Chapter 4 provides participation information for State Agency Neglected or Delinquent programs for 1986-87.

The methodology used in preparing this report is described in Appendix A. The other appendices include participation counts by grade in Appendix B; state-by-state listings of selected participation information for LEA programs for 1979-80 through 1986-87 in Appendix C; additional achievement data for LEA programs in 1986-87 in Appendix D; achievement data at the national level for the eight-year period since 1979-80 in Appendix E; and achievement data expressed in terms of normal curve equivalents for 1979-80 through 1986-87 in Appendix F.

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[4]The recalculated proportions for each year are: 70.5 percent in 1979-80, 69.8 percent in 1980-81, 67.6 percent in 1981-82, 69.1 percent in 1982-83, 71.7 percent in 1983-84, 75.5 percent in 1984-85, 75.5 percent in 1985-86, and 77.2 percent in 1986-87.

CHAPTER 1

PARTICIPATION PATTERNS FOR CHAPTER 1 LEA PROGRAMS

This chapter presents information on the participation patterns for Chapter 1 LEA programs. It describes participation patterns in 1986-87 both alone and in comparison to 1985-86. There are also descriptions of the eight-year trends from 1979-80 through 1986-87. The data in this chapter include the 50 states, the District of Columbia, Puerto Rico, and the Bureau of Indian Affairs.

OVERALL PARTICIPATION PATTERNS

Numbers of Chapter 1 Students

After initial declines (1980-1983) in the number of students participating in Chapter 1, the number has remained stable at the 4.7 million level.

During school year 1986-87, 4,732,986 students participated in Chapter 1 LEA programs. This represented a less than 1 percent decrease from the participation in the previous year. The overall decrease was 6,884 students. (Table 1.1)

The largest participation count during the eight-year period 1979-80 through 1986-87 was in 1979-80 when approximately 5.2 million students received Chapter 1 services. After participation rates declined from 1980-81 through 1982-83, Chapter 1 participation increased until 1984-85 when it reached a stable count of approximately 4.7 million. (Table 1.1)

Public/Nonpublic Participation

Public school participation decreased slightly from 1985-86 to 1986-87, while nonpublic school participation increased in the second year after the Aguilar v. Felton decision.

Fifteen percent of students enrolled in pre-kindergarten through grade 8 in public schools in 1986-87 participated in Chapter 1. By state, the percentages of elementary public students who participated in Chapter 1 varied from a low of 5 percent in Wyoming, to a high of 44 percent in Puerto Rico. Thirty-nine states, the District of Columbia, and Puerto Rico reported 11 percent or more of their elementary public school students as participating in Chapter 1. (Table 1.2 and Figure 1.1)

In contrast, only 3 percent of students enrolled in grades 9 through 12 in public schools participated in Chapter 1 in 1986-87. Public secondary participation ranged from less than 1 percent in Iowa, Maryland, Missouri, Ohio, Virginia, and West Virginia, to 11 percent in Puerto Rico. Forty states and the District of Columbia served between 1 and 5 percent of their public secondary students in Chapter 1 programs in 1986-87. (Table 1.3 and Figure 1.2)

Changes from 1985-86 to 1986-87

The number of public school participants decreased less than 1 percent from 1985-86 to 1986-87. The total number of public school participants decreased by only 17,187 students. In contrast, there was an increase in the number of nonpublic school participants between 1985-86 and 1986-87. The 8 percent increase represents 10,303 students.[5] (Table 1.1)

There were decreases in public school participation in 32 states, the District of Columbia, Puerto Rico, and the Bureau of Indian Affairs between 1985-86 and 1986-87. These decreases varied in size from 1 percent in Connecticut, the District of Columbia, Pennsylvania, and Tennessee, to 21 percent in Maryland.[6] Fifteen states had increases in public school participation between 1985-86 and 1986-87. The increases ranged from 1 percent in Hawaii, Mississippi, and Missouri, to 46 percent in Iowa.[7] Three states, North Dakota, Oregon, and South Dakota, maintained virtually the same levels of participation from 1985-86 to 1986-87. (Table 1.4)

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[5]The 1986-87 nonpublic participation counts are the first to include participants from schools with religious affiliation in Puerto Rico. The inclusion of these participants in 1986-87 only overestimates the actual percentage increase from 1985-86.

[6]Because Arizona samples its school districts for participation information, the public school decrease of 20 percent in that state may be due to the inclusion or exclusion of districts from one year to the next.

[7]According to an SEA official, the 1985-86 public participation counts for Iowa were incomplete, making the increase in public participation in 1986-87 appear larger than it actually was.

Because Georgia sampled its school districts for participation information in 1985-86, the public school increase of 11 percent may be due to the inclusion or exclusion of districts from one year to the next.

Nonpublic Chapter 1 participation decreased in 22 states. The decreases ranged from 3 percent in Delaware to 56 percent in Alaska. Increases were found in 28 states, the District of Columbia, and Puerto Rico.[8] The range of increases varied from 1 percent in the District of Columbia, Georgia, and Vermont, to 369 percent in Arkansas. There were no nonpublic participants in the Bureau of Indian Affairs. (Table 1.5)

Those states and the District of Columbia which had increases in nonpublic Chapter 1 participation generally credited the increases to having mechanisms in place by 1986-87 for serving nonpublic students. In 1985-86, Chapter 1 services to nonpublic students were in transition because of the Aguilar v. Felton decision. By 1986-87, nonpublic schools were better able to see how services could be provided.

Eight-Year Trends

Participation in Chapter 1 by public and nonpublic students has changed in different patterns over the eight-year period 1979-80 to 1986-87. Participation by public school students decreased from 1979-80 through 1982-83. Beginning in 1983-84, participation by public school students increased until 1986-87, when it remained virtually unchanged. (Table 1.1)

The pattern of nonpublic participation started off with a large increase in 1980-81, followed by a large decrease in 1981-82. No distinct pattern of increases or decreases can be seen in the succeeding years until 1985-86 when, following the Aguilar v. Felton decision, a very large decrease in nonpublic participation was reported. (Table 1.1)

Grade Level Participation

Both public and nonpublic participation in Chapter 1 continued to be concentrated in the elementary grades.

In 1986-87, the largest percentage (40 percent) of public school Chapter 1 participants was found in grades 1 through 3. Thirty-one percent of public school participants were in grades 4 through 6, and 17 percent were in grades 7 through 9. Less than

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[8]The 1986-87 nonpublic participation counts in Puerto Rico are the first to include participants in schools with religious affiliation. The inclusion of these participants in 1986-87 only overestimates the actual percentage increase from 1985-86.

15 percent of all public participants were found in pre-kindergarten and kindergarten (8 percent), and grades 10 through 12 (5 percent).[9] (Table 1.6 and Figure 1.3)

Nonpublic Chapter 1 participation in 1986-87 showed similar percentages of students in the elementary grades to public Chapter 1 participation. Thirty-nine percent of nonpublic participants were in grades 1 through 3, and 32 percent of nonpublic participants were in grades 4 through 6. Sixteen percent of the nonpublic participants were in grades 7 through 9, 3 percent were in pre-kindergarten and kindergarten, and 4 percent were in grades 10 through 12.[10] (Table 1.6 and Figure 1.3)

Public participation decreased in all grade spans, except grades 1 through 3, between 1985-86 and 1986-87. The decreases ranged from 1 percent in grades 4 through 6, to 5 percent in pre-kindergarten and kindergarten. The public participation of those reported as ungraded more than doubled from 1985-86 to 1986-87, although the category represented less than one percent of all public participation in both years. This increase was due primarily to two states which reported large numbers of ungraded public participants.[11]

Nonpublic participation increased in junior high and high school, and decreased in pre-kindergarten and kindergarten, and the elementary grades. The largest increase was found in grades 10 through 12, where there was a 66 percent increase. There was a 19 percent increase in grades 7 through 9. The largest decrease was found in pre-kindergarten and kindergarten, where there was a 25 percent decrease in nonpublic participation in 1986-87 from 1985-86. The elementary grades, 1 through 6, decreased only slightly, less than 3 percent overall. Nonpublic ungraded participation increased from 1985-86, but still remained

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[9]Grade by grade tables for both public and nonpublic participants are found in Appendix B.

[10]The 1986-87 total nonpublic participation count includes 7,016 participants in schools with religious affiliation in Puerto Rico who are not included in the counts by grade span.

[11]Connecticut reported 4,367 ungraded public participants -- 9 percent of the state's total public participation, and Michigan reported 1,342 ungraded public participants -- 1 percent of the state's total public participation. Four other states, Colorado, Mississippi, Rhode Island, and Vermont, also reported ungraded public participants in 1986-87. Only three states, Colorado, Michigan, and Nebraska, reported ungraded public participants in 1985-86.

less than 1 percent of all nonpublic participation. This increase was due to an increased number of states reporting nonpublic students in the ungraded category.[12]

[12]One state, Wisconsin, reported nonpublic ungraded participants in 1985-86, and four states, Connecticut, Michigan, Mississippi and Wisconsin, in 1986-87.

Table 1.1

Chapter 1 Participants, Public, Nonpublic, and Total --
1979-80 to 1986-87[a/]

Year	Public[b/]	Percent Change Year-to-Year	Nonpublic[c/]	Percent Change Year-to-Year	Total	Percent Change Year-to-Year
1979-80	4,973,708		189,114		5,162,822	
1980-81	4,862,308	-2	213,499	13	5,075,807	-2
1981-82	4,434,447	-9	184,084	-14	4,618,531	-9
1982-83	4,270,424	-4	177,210	-4	4,447,634	-4
1983-84[d/]	4,381,975	3	190,660	8	4,572,635	3
1984-85	4,528,177	3	184,532	-3	4,712,709	3
1985-86[e/]	4,611,948	2	127,922	-31	4,739,870	1
1986-87[f/]	4,594,761	*	138,225	8	4,732,986	*

* Less than 1 percent decrease.

a/ Guam reported participant information in 1979-80 and 1980-81; the Trust Territories reported participant information in 1979-80, 1980-81, 1981-82, and 1983-84; and the Virgin Islands reported participant information in 1979-80.

b/ Public Chapter 1 participation counts for the years 1979-80 through 1985-86 have been revised since the 1985-86 report to reflect a readjustment of the public participation counts supplied by California.

c/ By-pass students in Missouri and Virginia were not included prior to 1983-84.

d/ The numbers for nonpublic participants in California for 1983-84 were adjusted to reflect the average of the numbers reported for the years 1982-83 and 1984-85.

e/ The 1985-86 State Performance Reports were the first ones to provide information following the Aguilar v. Felton decision.

f/ The 1986-87 nonpublic participation counts are the first to include participants in schools with religious affiliation in Puerto Rico. The inclusion of these participants in 1986-87 only overestimates the actual percentage increase from 1985-86.

Table 1.2

Public School Enrollment and Chapter 1 Public Participants for Grades Pre-K through 8 -- 1986-87

State	PUBLIC SCHOOL ENROLLMENT a/	CHAPTER 1 PUBLIC PARTICIPATION b/	PERCENT RECEIVING CHAPTER 1
ALABAMA	518,982	112,435	22
ALASKA	77,996	4,383	6
ARIZONA	371,419	42,033	11
ARKANSAS	306,851	58,762	19
CALIFORNIA	3,045,684	659,086	22
COLORADO	386,304	32,612	8
CONNECTICUT	321,823	39,313	12
DELAWARE	64,807	9,959	15
DISTRICT OF COLUMBIA	62,456	14,611	23
FLORIDA	1,120,938	128,544	11
GEORGIA	777,991	130,528	17
HAWAII	113,256	12,314	11
IDAHO	149,613	16,886	11
ILLINOIS	1,249,340	126,403	10
INDIANA	653,613	95,763	15
IOWA	323,536	33,836	10
KANSAS	291,564	31,610	11
KENTUCKY	446,901	85,457	19
LOUISIANA	580,771	102,595	18
MAINE	143,671	25,063	17
MARYLAND	456,045	55,029	12
MASSACHUSETTS	559,418	67,124	12
MICHIGAN	1,108,798	133,417	12
MINNESOTA	479,130	54,628	11
MISSISSIPPI	356,052	86,936	24
MISSOURI	549,348	70,865	13
MONTANA	107,572	10,432	10
NEBRASKA	185,282	24,392	13
NEVADA	112,164	7,573	7
NEW HAMPSHIRE	109,948	9,345	8
NEW JERSEY	742,324	144,127	19
NEW MEXICO	191,037	25,734	13
NEW YORK	1,713,465	244,194	14
NORTH CAROLINA	748,451	102,402	14
NORTH DAKOTA	83,930	8,432	10
OHIO	1,208,110	122,365	10
OKLAHOMA	417,287	54,676	13
OREGON	308,527	35,356	11
PENNSYLVANIA	1,064,561	179,192	17
RHODE ISLAND	91,407	11,813	13
SOUTH CAROLINA	427,751	47,731	11
SOUTH DAKOTA	89,373	11,837	13
TENNESSEE	577,045	99,733	17
TEXAS	2,317,454	334,606	14
UTAH	308,389	20,270	7
VERMONT	63,392	8,495	13
VIRGINIA	673,237	72,437	11
WASHINGTON	521,333	55,848	11
WEST VIRGINIA	243,538	31,381	13
WISCONSIN	509,584	55,404	11
WYOMING	72,239	3,750	5
PUERTO RICO	503,012	219,949	44
BIA	-- c/	-- c/	-- c/
TOTAL	27,906,719	4,171,666	15

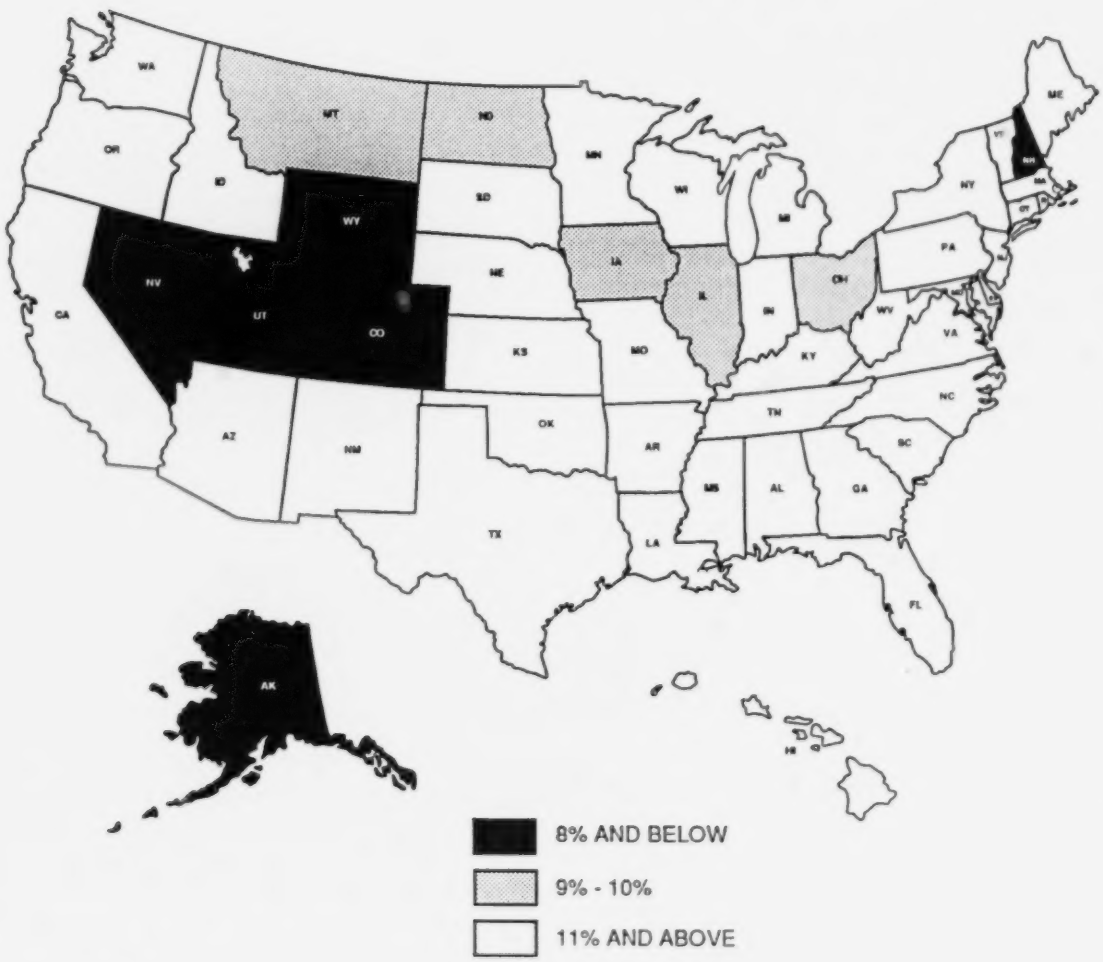
a/ Estimated public school enrollment--pre-kindergarten through grade 8. Source: National Center for Education Statistics.

b/ Public school participation--pre-kindergarten through grade 8.

c/ The percent receiving Chapter 1 cannot be calculated because comparable information on BIA enrollment is not collected by NCES.

FIGURE 1.1

Percent Of Total Public School Enrollment Receiving Chapter 1 Services By State For Grades Pre-K Through 8 1986-87



SOURCE: Enrollment data provided by the National Center for Education Statistics.

NOTE: The District of Columbia and Puerto Rico have values in the category 11% and above.

Table 1.3

Public School Enrollment and Chapter 1 Public Participants for Grades 9 through 12 -- 1986-87

State	PUBLIC SCHOOL ENROLLMENT a/	CHAPTER 1 PUBLIC PARTICIPATION b/	PERCENT RECEIVING CHAPTER 1
ALABAMA	214,753	2,218	1
ALASKA	29,977	318	1
ARIZONA	163,119	7,872	5
ARKANSAS	130,587	3,346	3
CALIFORNIA	1,332,305	106,709	8
COLORADO	172,111	2,982	2
CONNECTICUT	147,024	7,368	5
DELAWARE	29,603	279	1
DISTRICT OF COLUMBIA	23,156	930	4
FLORIDA	486,382	4,197	1
GEORGIA	318,434	4,939	2
HAWAII	51,384	1,898	4
IDAHO	58,778	853	1
ILLINOIS	575,845	26,864	5
INDIANA	313,167	4,295	1
IOWA	157,750	417	*
KANSAS	124,527	1,834	1
KENTUCKY	195,877	4,696	2
LOUISIANA	214,417	1,160	1
MAINE	68,081	638	1
MARYLAND	219,702	658	*
MASSACHUSETTS	274,500	7,839	3
MICHIGAN	573,082	7,930	1
MINNESOTA	232,004	1,702	1
MISSISSIPPI	142,587	5,925	4
MISSOURI	251,258	631	*
MONTANA	45,755	3,233	7
NEBRASKA	81,857	839	1
NEVADA	49,075	427	1
NEW HAMPSHIRE	53,769	414	1
NEW JERSEY	365,143	32,362	9
NEW MEXICO	90,906	2,302	3
NEW YORK	894,254	56,981	6
NORTH CAROLINA	336,797	11,109	3
NORTH DAKOTA	34,773	384	1
OHIO	585,398	327	*
OKLAHOMA	175,896	3,695	2
OREGON	140,780	6,740	5
PENNSYLVANIA	609,600	18,963	3
RHODE ISLAND	42,719	1,376	3
SOUTH CAROLINA	183,878	3,554	2
SOUTH DAKOTA	36,085	475	1
TENNESSEE	241,028	2,388	1
TEXAS	892,061	10,541	1
UTAH	107,605	1,701	2
VERMONT	28,720	466	2
VIRGINIA	301,898	583	*
WASHINGTON	240,095	5,946	2
WEST VIRGINIA	108,299	147	*
WISCONSIN	258,235	8,229	3
WYOMING	28,716	234	1
PUERTO RICO	176,477	20,056	11
BIA	-- c/	-- c/	-- c/
TOTAL	12,610,229	401,970	3

* Less than 1 percent.

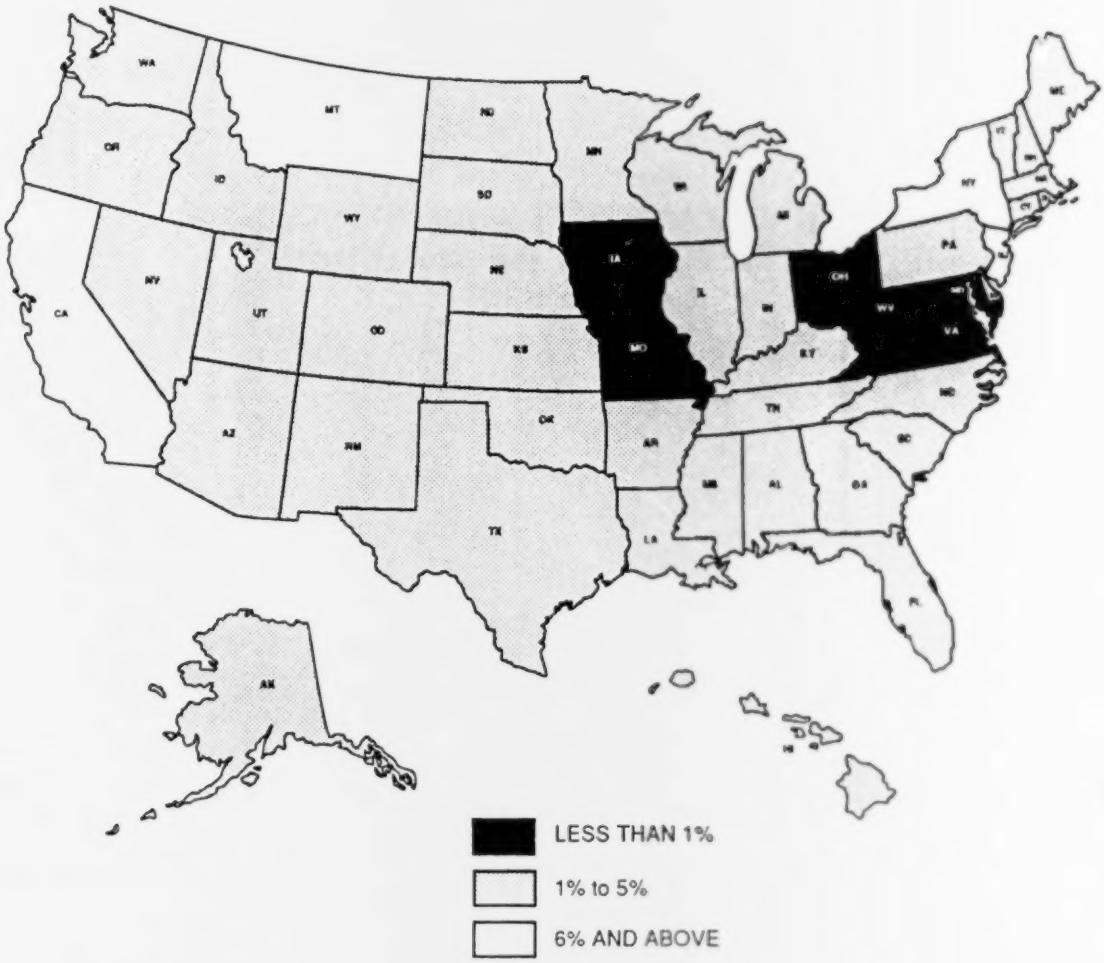
a/ Estimated public school enrollment--grades 9 through 12.
Source: National Center for Education Statistics.

b/ Public school participation--grades 9 through 12.

c/ The percent receiving Chapter 1 cannot be calculated because comparable information on BIA enrollment is not collected by NCES.

FIGURE 1.2

Percent Of Total Public School Enrollment Receiving Chapter 1 Services By State For Grades 9 Through 12 1986-87



SOURCE: Enrollment data provided by the National Center for Education Statistics.

NOTE: The District of Columbia has a value in the category 1% to 5% and Puerto Rico has a value in the category 6% and above.

Table 1.4

Chapter 1 Public School Participants by State -- 1985-86 and 1986-87

	TOTAL PUBLIC PARTICIPANTS 1985-86	TOTAL PUBLIC PARTICIPANTS 1986-87	PERCENT CHANGE
Alabama	117,556	114,653	-2
Alaska	4,212	4,701	12
Arizona a/	62,283	49,905	-20
Arkansas	65,653	62,108	-5
California	647,107	765,795	18
Colorado	38,742	35,750	-8
Connecticut	51,593	51,048	-1
Delaware	9,143	10,238	12
District of Columbia	15,776	15,541	-1
Florida	149,889	132,741	-11
Georgia b/	122,250	135,467	11
Hawaii	14,110	14,212	1
Idaho	16,747	17,739	6
Illinois	156,167	153,267	-2
Indiana	105,491	100,058	-5
Iowa	23,516	34,253	46
Kansas	34,920	33,444	-4
Kentucky	99,166	90,153	-9
Louisiana	106,559	103,755	-3
Maine	21,561	25,701	19
Maryland	70,100	55,687	-21
Massachusetts	81,207	74,963	-8
Michigan	152,556	142,689	-6
Minnesota	53,355	56,330	6
Mississippi	92,343	92,996	1
Missouri	71,023	71,496	1
Montana	13,103	13,665	4
Nebraska	24,060	25,231	5
Nevada	9,353	8,000	-14
New Hampshire	11,429	9,759	-15
New Jersey	158,842	176,489	11
New Mexico	30,838	28,036	-9
New York	311,118	301,175	-3
North Carolina	124,908	113,511	-9
North Dakota	8,804	8,816	*
Ohio	130,924	122,692	-6
Oklahoma	61,868	58,371	-6
Oregon	42,148	42,096	*
Pennsylvania	199,845	198,155	-1
Rhode Island	12,285	13,212	8
South Carolina	52,588	51,285	-2
South Dakota	12,350	12,312	*
Tennessee	103,135	102,121	-1
Texas	362,695	345,147	-5
Utah	24,378	21,971	-10
Vermont	9,610	8,975	-7
Virginia	76,598	73,020	-5
Washington	64,917	61,794	-5
West Virginia	33,467	31,528	-6
Wisconsin	65,950	63,633	-4
Wyoming	4,047	3,984	-2
Puerto Rico	264,166	240,005	-9
BIA	15,497	15,088	-3
Nation	4,611,948	4,594,761	*

* Less than 1 percent.

a/ Because Arizona samples its school districts for participation information, the public school decrease of 20 percent in that state may be due to the inclusion or exclusion of districts from one year to the next.

b/ Because Georgia sampled its school districts for participation information in 1985-86, the public school increase of 11 percent may be due to the inclusion or exclusion of districts from one year to the next.

Table 1.5

Chapter 1 Nonpublic School Participants by State -- 1985-86 and 1986-87

	TOTAL NONPUBLIC PARTICIPANTS 1985-86	TOTAL NONPUBLIC PARTICIPANTS 1986-87	PERCENT CHANGE
Alabama	99	125	26
Alaska	89	39	-56
Arizona a/	543	1,200	121
Arkansas	75	352	369
California	11,844	16,126	36
Colorado	354	338	-5
Connecticut	2,297	3,426	49
Delaware	524	507	-3
District of Columbia	437	440	1
Florida	1,710	2,714	59
Georgia	354	357	1
Hawaii	48	68	42
Idaho	82	118	44
Illinois	6,448	6,195	-4
Indiana	1,502	2,144	43
Iowa	1,944	2,384	23
Kansas	586	762	30
Kentucky	2,326	2,014	-13
Louisiana	1,706	2,709	59
Maine	192	305	59
Maryland	752	2,020	169
Massachusetts	3,615	4,392	21
Michigan	3,187	2,812	-12
Minnesota	3,023	2,843	-6
Mississippi	617	1,687	173
Missouri	3,004	2,833	-6
Montana	239	191	-20
Nebraska	911	1,422	56
Nevada	39	143	267
New Hampshire	411	301	-27
New Jersey	7,364	6,819	-7
New Mexico	877	1,070	22
New York	31,520	20,319	-36
North Carolina	447	372	-17
North Dakota	308	315	2
Ohio	5,737	7,997	39
Oklahoma	213	204	-4
Oregon	538	513	-5
Pennsylvania	17,749	13,697	-23
Rhode Island	520	443	-15
South Carolina	97	89	-8
South Dakota	652	494	-24
Tennessee	193	390	102
Texas	2,883	9,472	229
Utah	116	91	-22
Vermont	231	234	1
Virginia	705	893	27
Washington	350	668	91
West Virginia	147	202	37
Wisconsin	3,458	2,926	-15
Wyoming	76	37	-51
Puerto Rico b/	4,783	10,013	109
BIA c/	--	--	--
Nation b/	127,922	138,225	8

a/ Because Arizona samples its school districts for participation information, the nonpublic school increase of 121 percent in that state may be due to the inclusion or exclusion of districts from one year to the next.

b/ The 1986-87 nonpublic participation counts in Puerto Rico are the first to include participants in schools with religious affiliation (7,016). The inclusion of these participants in 1986-87 only overestimates the actual increase from 1985-86.

c/ BIA has no nonpublic students.

Table 1.6

Chapter 1 Participants by Grade Span, Public, Nonpublic and Total -- 1985-86 and 1986-87

	1985-86[a]		1986-87		
	Number	(Percent[b])	Number	(Percent[b])	Percent Change in Number
Public					
Pre-K and Kindergarten	366,691	(8)	348,087	(8)	-5
Grades 1-3	1,775,533	(38)	1,822,880	(40)	3
Grades 4-6	1,443,991	(31)	1,427,249	(31)	-1
Grades 7-9	799,307	(17)	775,829	(17)	-3
Grades 10-12	224,075	(5)	214,679	(5)	-4
Ungraded[c]	2,351	(*)	6,037	(*)	157
Total	4,611,948	(100)	4,594,761	(100)	*
Nonpublic					
Pre-K and Kindergarten	6,089	(5)	4,588	(3)	-25
Grades 1-3	55,560	(43)	54,515	(39)	-2
Grades 4-6	44,428	(35)	44,494	(32)	*
Grades 7-9	18,319	(14)	21,793	(16)	19
Grades 10-12	3,362	(3)	5,581	(4)	66
Ungraded[d]	164	(*)	238	(*)	45
Total	127,922	(100)	138,225[e]	(100)[f]	8
Total					
Pre-K and Kindergarten	372,780	(8)	352,675	(7)	-5
Grades 1-3	1,831,093	(39)	1,877,395	(40)	3
Grades 4-6	1,488,419	(31)	1,471,743	(31)	-1
Grades 7-9	817,626	(17)	797,622	(17)	-2
Grades 10-12	227,437	(5)	220,260	(5)	-3
Ungraded	2,515	(*)	6,275	(*)	150
Total	4,739,870	(100)	4,732,986[e]	(100)	*

* Less than 1 percent.

a/ The 1985-86 State Performance Reports are the first ones to provide information following the Aguilar v. Felton decision.

b/ Percents may not add to 100 due to rounding.

c/ Three states (Colorado, Michigan, and Nebraska) reported public ungraded participants in 1985-86, and six states (Colorado, Connecticut, Michigan, Mississippi, Rhode Island, and Vermont) in 1986-87.

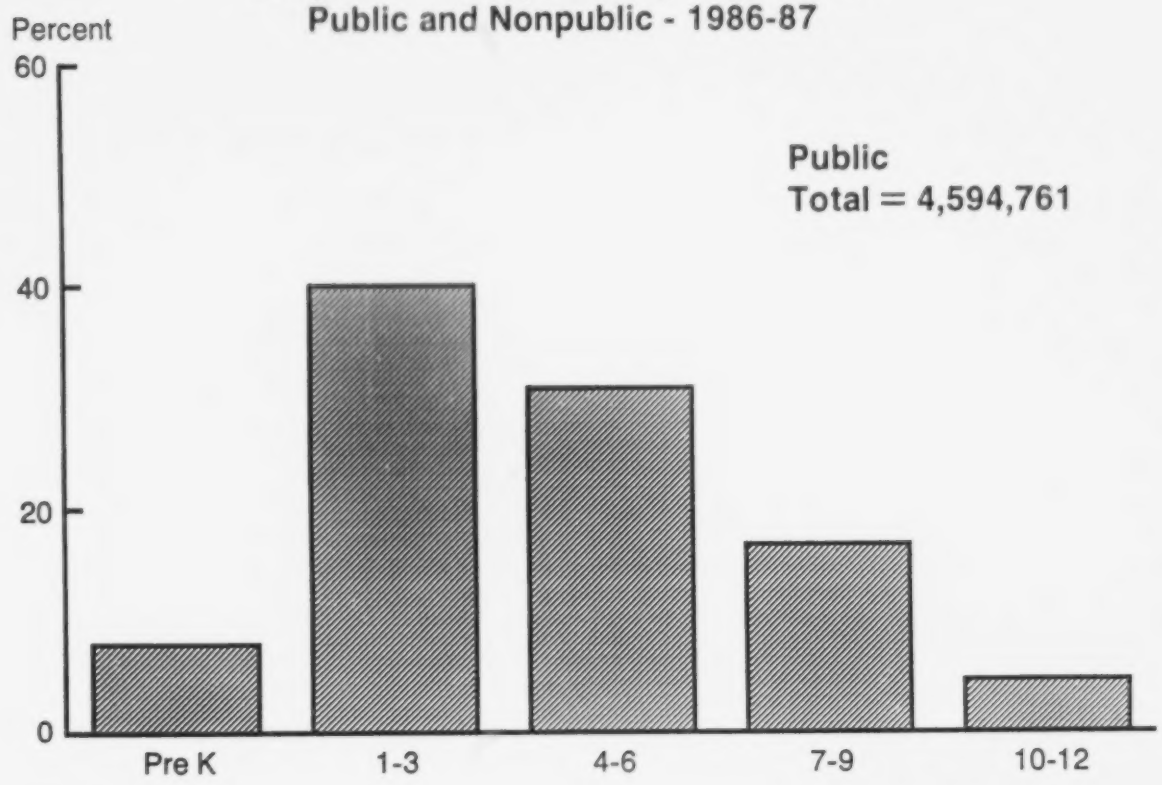
d/ One state (Wisconsin) reported nonpublic ungraded participants in 1985-86, and four states (Connecticut, Michigan, Mississippi, and Wisconsin) in 1986-87.

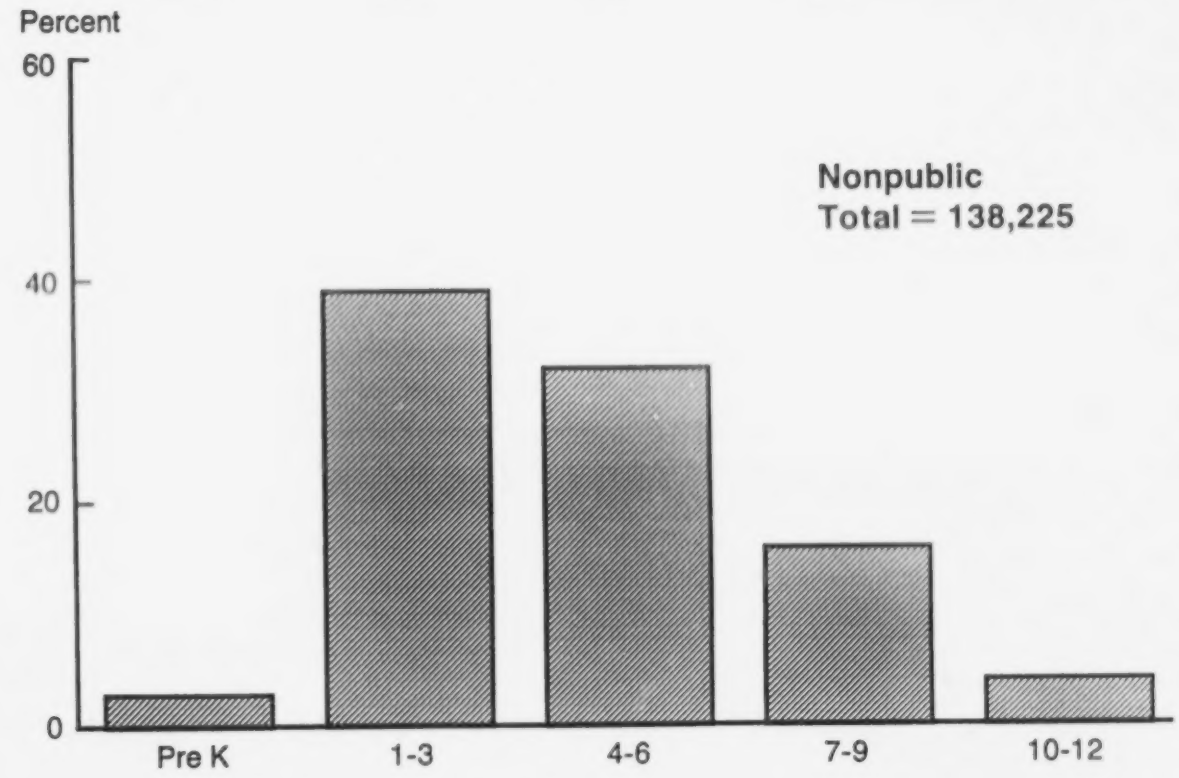
e/ The 1986-87 nonpublic participation count and the total participation count each includes 7,016 participants in schools with religious affiliation in Puerto Rico who are not included in the counts by grade span.

f/ The 1986-87 percents by grade span do not add to 100 because of 7,016 nonpublic participants in Puerto Rico who are not included in the counts by grade span.

Figure 1.3

Chapter 1 Participation by Grade Span
Public and Nonpublic - 1986-87





CHAPTER 1 SERVICE PATTERNS

Instructional Services

Three-fourths of the Chapter 1 participants received instruction in reading, and almost one-half of the participants received instruction in mathematics. Between 15 and 20 percent received other language arts or other instructional services. While there was a slight decrease in overall participation, in all areas of instructional services more students received instruction in 1986-87 than in 1985-86.

Patterns in 1986-87

In 1986-87, the majority of students received Chapter 1 instruction in reading. Seventy-six percent of all participants received reading instruction, a total of close to 3.6 million students. The second largest area of Chapter 1 instruction was mathematics, where over 2.2 million students, 47 percent of all participants, received instruction. (Table 1.7 and Figure 1.4)

Changes from 1985-86 to 1986-87

Participation in each subject area represented similar proportions of total participation in both school years 1985-86 and 1986-87. For example, approximately 75 percent of all participants received instruction in reading in both years. (Table 1.7)

From 1985-86 to 1986-87, increases were seen in all instructional services. The largest increase, 11 percent, was seen in other language arts instruction. This increase was due, in large part, to reported increases in two states. California showed an increase of 127,800 students receiving other language arts, and Connecticut showed an increase of over 20,000 students due to a change in their reporting format.[13]

Eight-Year Trends

During the eight-year period 1979-80 through 1986-87, the area of other instructional services showed the most variation in services provided to Chapter 1 participants. Other instructional services include such services as early childhood, preschool, kindergarten, readiness, tutoring, drop-out prevention, and

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[13]According to an SEA official in Connecticut, the practice in the past had been to combine the numbers of students receiving reading, mathematics, and other language arts instruction when submitting the State Performance Report. In 1986-87, the participation counts for each subject were reported separately.

English to limited English speaking students. Starting with 16 percent of all students receiving other instructional services in 1979-80, the percentage dropped to 5 percent, increased to 18 percent, and dropped again to 9 percent. Over the last three years, 1984-85 through 1986-87, the proportion has been steadily increasing. The increase beginning in 1984-85 was partially due to the elimination of three reporting categories from the form.[14] (Table 1.8)

The proportion of students receiving reading instruction dropped in the first three years, and has risen back close to its original level by the end of the eight-year period. The fluctuation has been small, however, ranging from 71 percent to 77 percent. Other language arts participation has fluctuated between 13 percent and 20 percent over the eight-year period, while the proportion of Chapter 1 students receiving mathematics has been steadily rising in small increments since 1980-81. (Table 1.8)

Supporting Services

Fewer participants received supporting services than instruction in 1986-87. Unlike instructional services, the number of Chapter 1 students receiving supporting services declined in every category from 1985-86 to 1986-87.

Patterns in 1986-87

The largest area in which supporting services were provided was in attendance, social work, and guidance, where over 830,000 participants, 18 percent of the total, received services. Slightly fewer participants received health and nutrition services, 13 percent. The smallest service areas were transportation, 4 percent, and other supporting services, 6 percent. Other supporting services include such services as supplemental eye screening, speech therapy, library, field trips, clothing, and medical care. (Table 1.7)

While all states, the District of Columbia, Puerto Rico, and the Bureau of Indian Affairs provided instructional services, 12 states, the District of Columbia, and the Bureau of Indian Affairs provided no supporting services.

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[14]Year-to-year changes in the other instructional services category can also be explained, in part, by the rather large fluctuations in the numbers reported by California.

Changes from 1985-86 to 1986-87

In all areas of supporting services, decreases were seen in the numbers of Chapter 1 students receiving services from 1985-86 to 1986-87. While the percent of Chapter 1 students served in each area for the two years was similar, for example, approximately 18 percent received attendance, social work, and guidance services in both years, the absolute number receiving each service declined between the two years. The decreases were not large, and represented the accumulation of decreases across the states.

Eight-Year Trends

In the categories of supporting services, a less constant pattern has been seen than among the instructional services in terms of the proportion of participants, although not necessarily in the absolute number of participants. The proportions receiving attendance, social work, and guidance have fluctuated each year with no apparent pattern. The proportion of Chapter 1 students receiving health and nutrition services dropped sharply in the first three years, and have been steadily declining in the remaining years. The proportion of Chapter 1 students receiving other supporting services showed a brief surge in 1980-81 and 1981-82, but in recent years the proportions have remained constant at 5 percent to 7 percent. Only the category of transportation has remained constant, where the proportion of participants has remained in the range of 3 percent to 6 percent. (Table 1.8)

Services for Public and Nonpublic Students

The number of public school students receiving Chapter 1 services in 1986-87 declined slightly in all categories of instructional and supporting services, except other language arts. In contrast, the number of nonpublic students receiving Chapter 1 services increased significantly in most service categories.

Close to 3.4 million public school students received Chapter 1 reading instruction in 1986-87. This represents 73 percent of all public Chapter 1 participants. Forty-four percent of the public school participants, over 2 million, received Chapter 1 mathematics instruction. (Table 1.9)

In the supporting services provided through Chapter 1, 18 percent of the public participants received attendance, social work, and guidance, and 13 percent received health and nutrition. (Table 1.9)

In each category of instructional services and supporting services, except instruction in other language arts, there was a decrease in the number of Chapter 1 students served from 1985-86 to 1986-87. The largest decrease was seen in the area of other supporting services, where an 11 percent decrease was reported.[15] (Table 1.9)

Over 90,000 nonpublic students, 67 percent of all nonpublic participants, received reading instruction in 1986-87. Close to 50,000 nonpublic students, 35 percent, received instruction in mathematics. Over 16,000 nonpublic students, 12 percent, received other language arts, and almost 8,000 nonpublic students, 6 percent, received other instructional services.[16] (Table 1.10)

In the supporting services, 14 percent of the nonpublic Chapter 1 students received attendance, social work, and guidance, and 8 percent received health and nutrition. (Table 1.10)

Between 1985-86 and 1986-87, increases were seen in most categories of both instructional and supporting services for nonpublic participants. There were decreases in nonpublic participation in other instructional services and transportation. The largest increase was seen in other language arts instruction, where the number of nonpublic participants receiving this service more than tripled. This was the only category of public school services to increase as well.

In the eight years since school year 1979-80, more students have received Chapter 1 reading instruction than mathematics instruction in both public and nonpublic schools. Levels of participation have remained stable across the years in both subjects. (Figure 1.5)

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[15]The large decrease in the number receiving other supporting services, 35,250, is due primarily to decreases in Louisiana and Puerto Rico. Louisiana decreased by 17,174, from 83,658 to 66,484, and Puerto Rico decreased by 15,449, from 62,072 to 46,623.

Five states provided no other supporting services in 1986-87, although they had provided the services in 1985-86 -- Alaska, Arkansas, Montana, North Carolina, and Vermont.

[16]The 1986-87 total nonpublic participation count includes 7,016 participants in schools with religious affiliation in Puerto Rico who are not included in the counts by service area.

Services for Neglected or Delinquent Students

Services for neglected or delinquent students increased significantly in 1986-87, due, in great part, to the increases reported in California.

Over 128,000 neglected or delinquent (N or D) students received Chapter 1 instruction in reading in 1986-87. Over 110,000 received Chapter 1 instruction in mathematics. Chapter 1 instruction in other language arts and other instructional services were received by over 66,000 N or D students. (Table 1.11)

Fewer N or D students received supporting services under Chapter 1. The largest group was over 14,000 N or D students receiving other supporting services. Less than 3,000 N or D students received attendance, social work and guidance services. Approximately 1,100 N or D students received health and nutrition services, and only 313 received transportation services.[17] (Table 1.11)

The large increases in the numbers of local N or D students receiving Chapter 1 instructional services from 1985-86 to 1986-87 were due, in large part, to California. The number of local N or D students in California who received reading instruction increased by 70,331; the number who received other language arts instruction increased by 40,252; the number who received mathematics instruction increased by 61,847; and the number who received other instructional services increased by 35,674.

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[17]The percent of local N or D participants receiving each service is not included in this report because complete figures on the total number of local N or D participants were not available in California, Indiana, Maine, Minnesota, New Jersey, Oregon, Virginia, and Puerto Rico.

Table 1.7

Total Chapter 1 Participants by Service Area -- 1985-86 and 1986-87

	1985-86		1986-87		
	Number	(Percent) (Served)	Number	(Percent) (Served)	Percent Change in Number[a/]
Instructional					
Reading	3,528,689	(74)	3,583,537	(76)	2
Other Language Arts	836,672	(18)	930,804	(20)	11
Mathematics	2,149,823	(45)	2,202,325	(47)	2
Other Instructional Services[b/]	708,901	(15)	733,233	(15)	3
Supporting					
Attendance, Social Work, and Guidance	878,477	(19)	837,825	(18)	-5
Health and Nutrition	636,199	(13)	619,378	(13)	-3
Transportation	195,692	(4)	183,173	(4)	-6
Other Supporting Services[c/]	323,814	(7)	302,352	(6)	-7
Unduplicated Participant Count[d/]	4,739,870		4,732,986		

a/ See Tables 1.9 through 1.11 for explanations of year-to-year changes in public, nonpublic, and local neglected or delinquent participant figures.

b/ Other instructional services include tutoring, oral language development, basic skills, vocational education, pre-school, readiness, and transition among others.

c/ Other supporting services include media, supplemental eye screening, speech therapy, library, field trips, clothing, and nurse among others.

d/ The 1986-87 total participation count includes 7,016 nonpublic participants in schools with religious affiliation in Puerto Rico who are not included in the counts by service area.

Figure 1.4

Percent of Chapter 1 Participants Served by Service Area - 1986-87

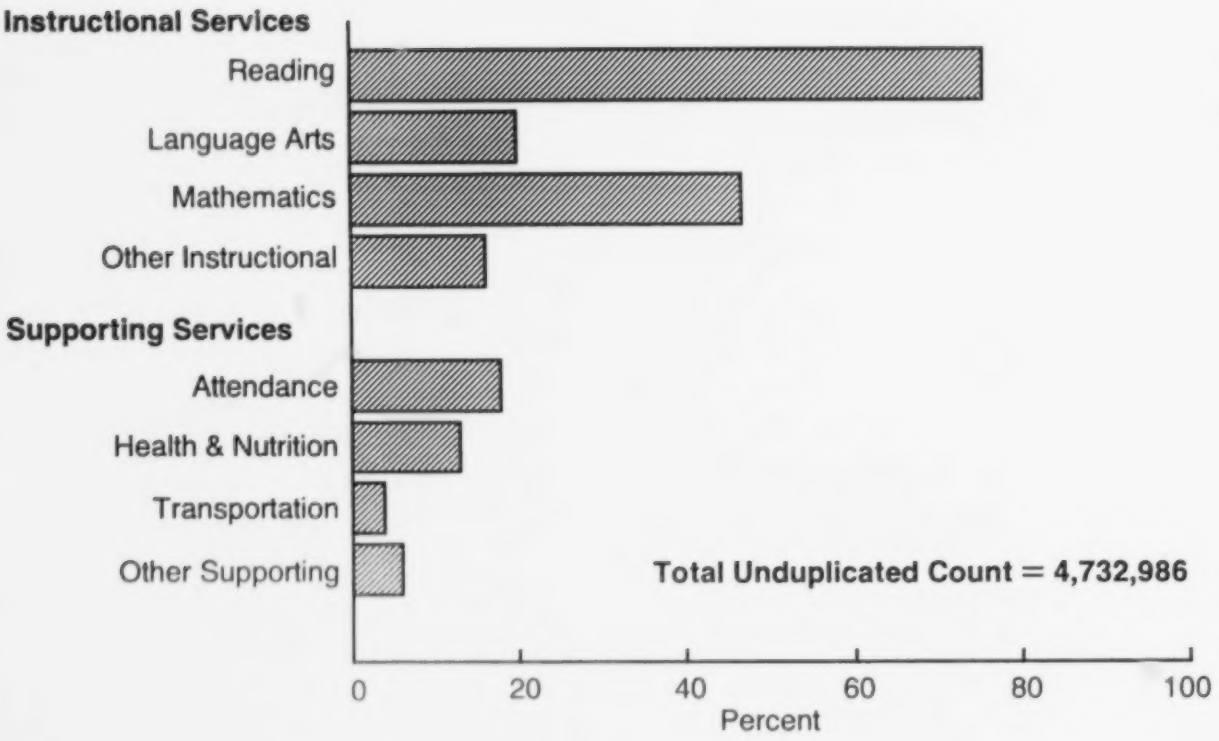

Table 1.8

Percent of Total Chapter 1 Participants Served, by Service Area -- 1979-80 to 1986-87[a/]

	Instructional			
Year	Reading	Other Language Arts	Mathematics	Other Instructional
1979-80	77	16	44	16
1980-81	72	13	40	5
1981-82	71	17	41	18
1982-83	74	16	44	9
1983-84	75	19	44	9
1984-85	74	18	45	12
1985-86	74	18	45	15
1986-87	76	20	47	15

	Supporting			
Year	Attendance, Social Work, and Guidance	Health and Nutrition	Transportation	Other Supporting
1979-80	15	25	3	8
1980-81	21	20	5	11
1981-82	20	16	6	13
1982-83	16	14	5	5
1983-84	16	14	4	7
1984-85	15	12	4	6
1985-86	19	13	4	7
1986-87	18	13	4	6

a/ Guam reported service area information in 1979-80 and 1980-81; the Trust Territories reported service area information in 1980-81, 1981-82, and 1983-84; and the Virgin Islands reported service area information in 1979-80.

Table 1.9

Chapter 1 Public School Participants by Service Area -- 1985-86 and 1986-87

	1985-86		1986-87		
	Number	(Percent) (Served)	Number	(Percent) (Served)	Percent Change in Number
Instructional					
Reading	3,382,410	(73)	3,362,060	(73)	-1
Other Language Arts	807,398	(18)	847,411	(18)	5
Mathematics	2,057,781	(45)	2,043,110	(44)	-1
Other Instructional Services[a/]	668,719	(14)	659,265	(14)	-1
Supporting					
Attendance, Social Work, and Guidance	855,436	(19)	816,410	(18)	-5
Health and Nutrition	625,606	(14)	606,497	(13)	-3
Transportation	191,853	(4)	179,912	(4)	-6
Other Supporting Services[b/]	317,671	(7)	282,421	(6)	-11[c/]
Unduplicated Participant Count	4,611,948		4,594,761		

a/ Other instructional services include tutoring, oral language development, basic skills, vocational education, pre-school, readiness, and transition among others.

b/ Other supporting services include media, supplemental eye screening, speech therapy, library, field trips, clothing, and nurse among others.

c/ The large decrease in the number receiving other supporting services, 35,250, is due primarily to decreases in Louisiana and Puerto Rico. Louisiana decreased by 17,174, from 83,658 to 66,484, and Puerto Rico decreased by 15,449, from 62,072 to 46,623.

Five states provided no other supporting services in 1986-87, although they had provided the services in 1985-86--Alaska, Arkansas, Montana, North Carolina, and Vermont.

Table 1.10

Chapter 1 Nonpublic School Participants by Service Area -- 1985-86 and 1986-87

	1985-86		1986-87		
	Number[a/]	(Percent) (Served)	Number	(Percent) (Served)	Percent Change in Number[b/]
Instructional					
Reading	87,233	(68)	92,634	(67)	6
Other Language Arts	5,353	(4)	16,563	(12)	209
Mathematics	43,450	(34)	47,899	(35)	10
Other Instructional Services[c/]	12,821	(10)	7,952	(6)	-38[d/]
Supporting					
Attendance, Social Work, and Guidance	11,400	(9)	18,677	(14)	64
Health and Nutrition	9,990	(8)	11,721	(8)	17
Transportation	3,516	(3)	2,948	(2)	-16
Other Supporting Services[e/]	2,833	(2)	5,717	(4)	102
Unduplicated Participant Count[f/]	127,922		138,225		

a/ The 1985-86 State Performance Reports are the first ones to provide information following the Aguilar v. Felton decision.

b/ The large increases in nonpublic participation were due to the mechanisms for serving nonpublic students being in place after the Aguilar v. Felton decision.

c/ Other instructional services include tutoring, oral language development, basic skills, vocational education, pre-school, readiness, and transition among others.

d/ The decrease in the number receiving other instructional services, 4,869, is due primarily to decreases in New York and Puerto Rico. New York decreased by 1,940, from 4,627 to 2,687, and Puerto Rico decreased by 2,588, from 5,979 to 3,391.

e/ Other supporting services include media, supplemental eye screening, speech therapy, library, field trips, clothing, and nurse among others.

f/ The 1986-87 total nonpublic participation count includes 7,016 participants in schools with religious affiliation in Puerto Rico who are not included in the counts by service area.

Figure 1.5

Percent of Chapter 1 Participants Receiving Reading and Mathematics Services, Public and Nonpublic 1979-80 to 1986-87

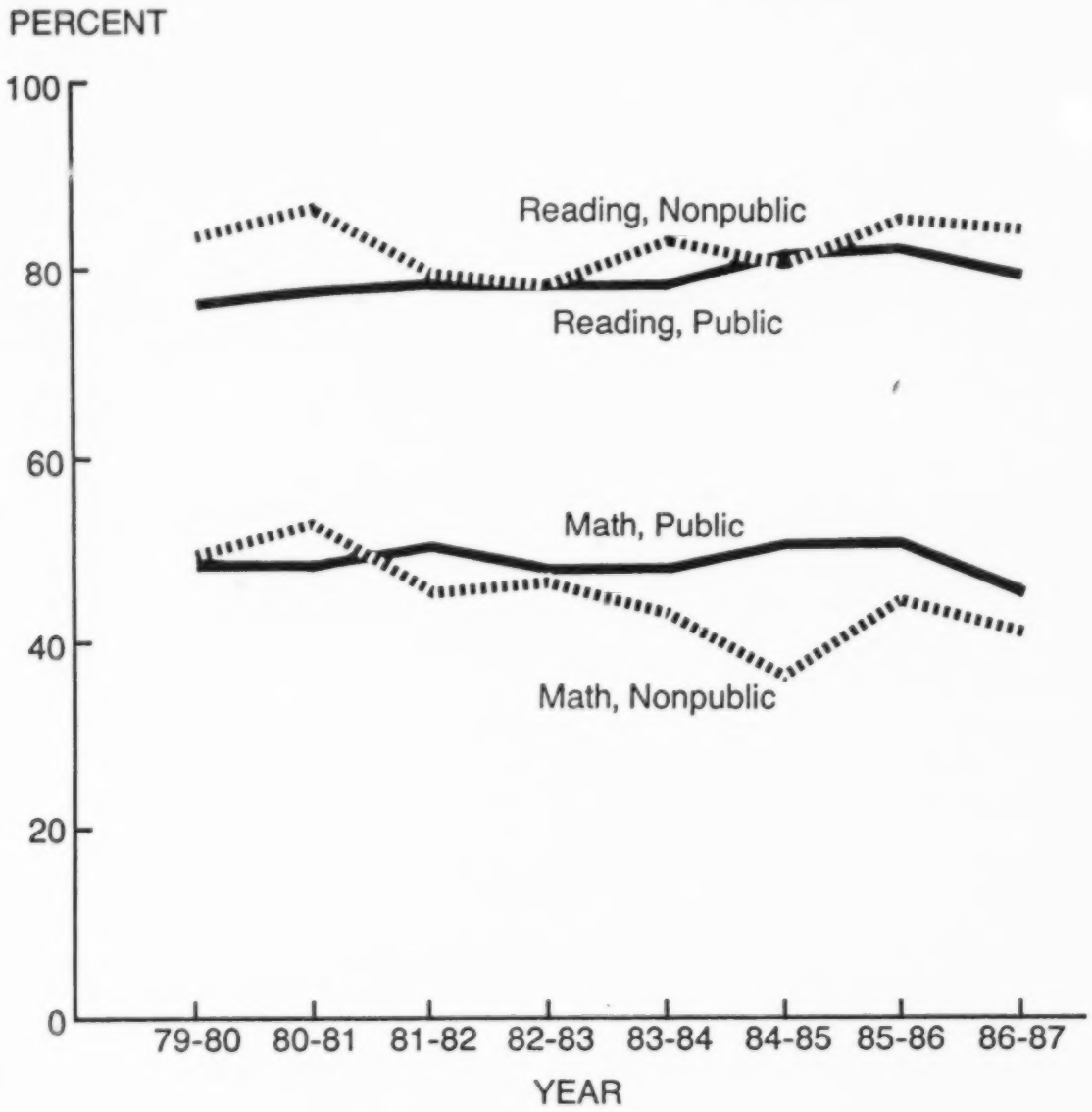

Table 1.11

Chapter 1 Local Neglected or Delinquent Participants by Service Area -- 1985-86 and 1986-87[a/]

	1985-86 Number	1986-87 Number	Percent Change in Number
Instructional[b/]			
Reading	59,046	128,843	118
Other Language Arts	23,921	66,830	179
Mathematics	48,592	111,316	129
Other Instructional Services	27,361	66,016	141
Supporting			
Attendance, Social Work, and Guidance[c/]	11,641	2,738	-76
Health and Nutrition[d/]	603	1,160	92
Transportation	323	313	-3
Other Supporting Services[e/]	3,310	14,214	329

a/ Percent served is not reported on this table because complete figures on the total number of local N or D participants were not available. While states reported the number receiving each service, some states did not report the unduplicated number of local N or D participants.

b/ The large increases in the numbers of local N or D students receiving Chapter 1 instructional services were due, for the most part, to increases found in California. The number of local N or D students in California who received reading instruction increased by 70,331; the number who received other language arts instruction increased by 40,252; the number who received mathematics instruction increased by 61,847; and the number who received other instructional services increased by 35,674.

c/ Two states reported large decreases in the number of local N or D students receiving attendance, social work, and guidance services. New Jersey decreased by 5,705, from 5,721 to 16, and California decreased by 3,027, from 3,027 to 0.

d/ The increase in the number of local N or D students receiving health and nutrition services was due, in part, to an increase in Ohio of 266 participants. Four states, Illinois, Indiana, Montana, and New Jersey, provided health and nutrition services in 1986-87, but not in 1985-86.

e/ Two states reported large increases in the numbers of students receiving other supporting services. New York increased by 3,424, from 0 to 3,424, and California increased by 7,471, from 2,001 to 9,472.

CHAPTER 1 STAFFING PATTERNS

Staff Composition

Approximately one-half of the staff funded by Chapter 1 in 1986-87 were teachers. Teachers and teacher aides comprised 85 percent of the total staff funded by Chapter 1 dollars.

In 1986-87, there were 143,804 FTE staff reported by the 50 states, the District of Columbia, Puerto Rico, and the Bureau of Indian Affairs. The largest staff category funded by Chapter 1 in 1986-87 was that of teachers, who represented 46 percent of the total Chapter 1 FTE staff. They were followed closely by teacher aides with 39 percent of the total Chapter 1 FTE staff. Together, these two staff categories constituted 85 percent of the total Chapter 1 FTE staff. Each of the remaining staff categories, administrative, curriculum specialists, supporting, clerical, and other, made up no more than 5 percent of the total. (Table 1.12 and Figure 1.6)

By state, the percentage of teachers reported as FTE staff varied from a low of 15 percent in California and Utah, to a high of 85 percent in Iowa. The percentage of teacher aides varied from 10 percent in New York to 79 percent in Utah. Twelve states reported between 41 and 50 percent of their Chapter 1 staff were teachers. In addition, 12 states reported between 41 and 50 percent of the staff were teacher aides. (Table 1.13 and Appendix Table C.3)

Changes in Staff Composition

The number of total staff decreased 5 percent from 1985-86 to 1986-87, with slight decreases in most categories and a larger decrease in curriculum specialists.

Total staff decreased 5 percent from 1985-86 to 1986-87, although the distributions of staff by category remained about the same in both years. (Table 1.12)

Decreases in the FTE staff were seen in every category except other staff. The decreases ranged from 3 percent for supporting staff and clerical staff to 39 percent for curriculum

specialists.[18] The FTE other staff remained constant for the two years. (Table 1.12)

During the eight-year period from 1979-80 through 1986-87, there has been a general decline in the number of total FTE staff. There were two years in which the numbers increased, 1983-84 and 1984-85, which matched increases seen in participation counts. (Table 1.14)

The percentage of teachers who make up the Chapter 1 FTE staff showed increases during the period 1979-80 through 1982-83, and has remained steady at approximately 46 percent of the total since 1982-83. In contrast, the percentage of Chapter 1 aides has decreased over the years, from 45 percent in 1979-80 to 39 percent in 1986-87. (Table 1.14)

Although the overall percentage of teacher aides is smaller than the percentage of teachers, in 20 states, the District of Columbia, and the Bureau of Indian Affairs, the percentage of teacher aides is higher than that of teachers. (Appendix Table C.3)

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[18]The decrease in FTE curriculum specialists is due primarily to a decrease in Pennsylvania. The FTE curriculum specialists decreased by 949.1 in Pennsylvania, from 1,021.2 to 72.1, because reading specialists, who previously had been reported as curriculum specialists, were reported as teachers in 1986-87.

Table 1.12

Chapter 1 FTE Staff by Classification -- 1985-86 and 1986-87

Staff Classification	1985-86 Number	1985-86 (Percent[a/])	1986-87 Number	1986-87 (Percent[a/])	Percent Change in Number
Administrative	3,775	(2)	3,566	(2)	-6
Teachers	69,014	(45)	65,773	(46)	-5
Teacher Aides	59,058	(39)	55,817	(39)	-5
Curriculum Specialists[b/]	2,936	(2)	1,795	(1)	-39
Supporting	5,194	(3)	5,029	(3)	-3
Clerical	5,308	(3)	5,142	(4)	-3
Other[c/]	6,651	(4)	6,682	(5)	*
Total	151,936	(100)	143,804	(100)	-5

* Less than 1 percent.

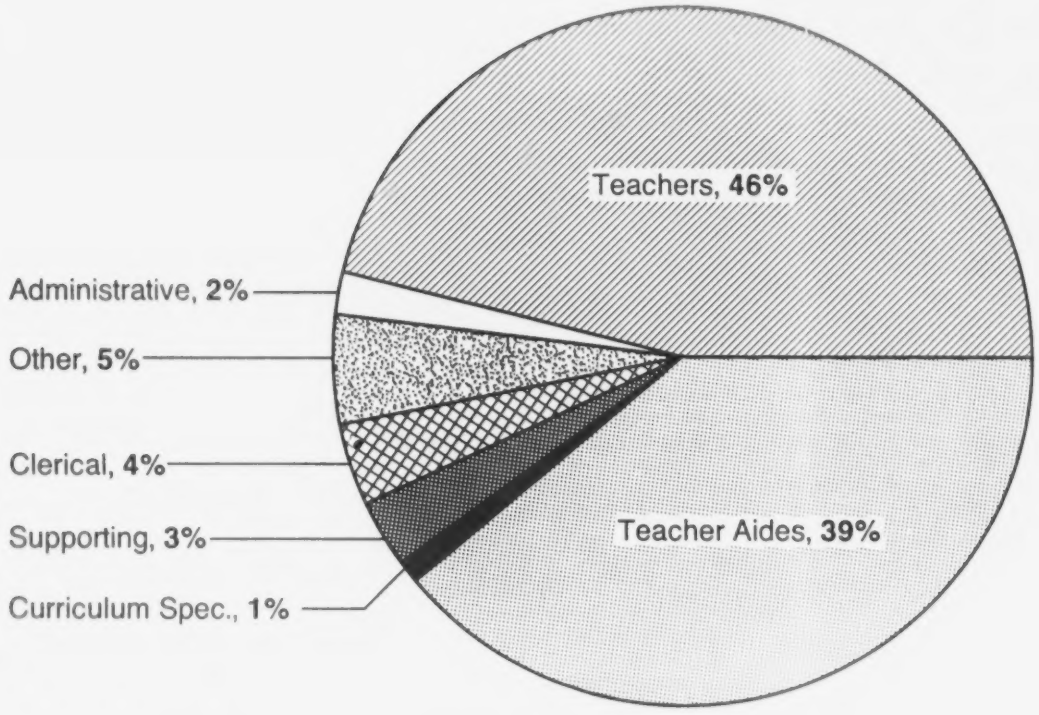
a/ Percents may not add to 100 due to rounding.

b/ The decrease in FTE curriculum specialists is due primarily to a decrease in Pennsylvania. The FTE curriculum specialists decreased by 949.1 in Pennsylvania, from 1,021.2 to 72.1, because reading specialists, who previously had been reported as curriculum specialists, were reported as teachers in 1986-87.

c/ The other FTE staff category includes such positions as parent coordinator, tutor, consultant, language specialist, bookkeeper, parent consultant, warehouse keeper, and social worker.

Figure 1.6

Chapter 1 FTE Staff by Classification
1986-87



Total = 143,804

Table 1.13

Percent of Total Chapter 1 FTE Staff Reported as Teachers and Teacher Aides -- 1986-87

Percent of Total Staff	Number of States	
	Teachers	Teacher Aides
0 - 10	0	1
11 - 20	4	8
21 - 30	4	8
31 - 40	10	9
41 - 50	12	12
51 - 60	11	8
61 - 70	5	5
71 - 80	6	2
81 - 90	1	0

Table 1.14

Chapter 1 FTE Teachers and Teacher Aides --
1979-80 to 1986-87[a/]

	Teachers		Teacher Aides		
Year	Number	Percent of Total Staff	Number	Percent of Total Staff	Number of Total Staff[b/]
1979-80	77,782	40	86,826	45	194,403
1980-81	80,078	43	80,938	44	185,925
1981-82	74,786	45	67,536	40	167,748
1982-83	68,590	46	58,093	39	149,220
1983-84	68,627	46	57,479	38	150,277
1984-85	72,797	46	61,380	39	158,967
1985-86	69,014	45	59,058	39	151,936
1986-87	65,773	46	55,817	39	143,804

a/ Guam reported staff information in 1979-80 and 1980-81; the Trust Territories reported staff information in 1979-80, 1980-81, 1981-82, and 1983-84; and the Virgin Islands reported staff information in 1979-80.

b/ Total staff includes teachers, teacher aides, administrators, curriculum specialists, supporting staff, clerical staff, and other staff.

CHARACTERISTICS OF CHAPTER 1 STUDENTS

Racial/Ethnic Classification

In 1986-87, 57 percent of Chapter 1 participants were nonwhite. Twenty-eight percent were black, 24 percent were Hispanic, 3 percent were Asian or Pacific Islander, and 2 percent were American Indian or Alaskan Native. White Chapter 1 students made up 43 percent of the total.[19] (Table 1.15 and Figure 1.7)

Year of Birth

Sixty-six percent of 1986-87 Chapter 1 participants were born between 1975 and 1980, the years which can be considered to contain children of elementary school age. The years which can be considered to contain children of secondary school age, 1969 through 1974, comprised 26 percent of the 1986-87 Chapter 1 participants. Seven percent of the 1986-87 Chapter 1 participants were born in 1981 through 1985, the years that can be considered as containing children eligible for kindergarten or

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[19]In 1986-87, the total number on Table 1.15 will not correspond to the total on Table 1.1 for three reasons. First, all Chapter 1 by-pass students were included in the number by grade, but not all were included in the number by racial/ethnic classification. By-pass participants were included by grade in Missouri (2,761 participants), and by grade and racial/ethnic classification in Virginia (568 participants). Second, in 10 states, the total number reported by racial/ethnic classification was not the same as the total number reported by grade. The largest differences were found in California, which reported 20,719 fewer participants by racial/ethnic classification than by grade, and Missouri, which reported 4,817 more participants by racial/ethnic classification than by grade. Vermont did not provide counts by racial/ethnic classification. Third, the total reported by Puerto Rico includes 7,016 participants for whom no demographic information was reported.

younger. In the birth years between 1964 and 1968, which contain children 18 years or older, 1 percent of the participants were reported.[20] (Table 1.16)

Gender

In 1986-87, states reported that 55 percent of the Chapter 1 participants were males, and states reported that 45 percent were females.[21] These percentages have remained stable since 1984-85 when the data were first collected. (Table 1.17)

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[20]The total number on Table 1.16 will not correspond to the total on Table 1.1 for three reasons. First, all Chapter 1 by-pass students were included in the number by grade, but not all were included in the number by year of birth. By-pass participants were included by grade in Missouri (2,761 participants), and by grade and year of birth in Virginia (568 participants). Second, in 11 states, the total number reported by year of birth was not the same as the total number reported by grade. The largest differences were found in California, which reported 29,230 fewer participants by year of birth than by grade, and Missouri, which reported 4,539 more participants by year of birth than by grade. Third, the total reported by Puerto Rico includes 7,016 participants for whom no demographic information was reported.

[21]The total number on Table 1.17 will not correspond to the total on Table 1.1 for three reasons. First, all Chapter 1 by-pass students were included in the number by grade, but not all were included in the number by gender. By-pass participants were included by grade in Missouri (2,761 participants), and by grade and gender in Virginia (568 participants). Second, in 11 states, the total number reported by gender was not the same as the total number reported by grade. The largest differences were found in California, which reported 25,713 fewer participants by gender than by grade, and Missouri, which reported 4,992 more participants by gender than by grade. Third, the total reported by Puerto Rico includes 7,016 participants for whom no demographic information was reported.

Table 1.15

Chapter 1 Participants by Racial/Ethnic Classification -- 1985-86 and 1986-87

Racial/Ethnic Classification	1985-86		1986-87		Percent Change in Number
	Number	(Percent)	Number	(Percent)	
American Indian or Alaskan Native[a/]	82,357	(2)	70,894	(2)	-14
Asian or Pacific Islander[b/]	110,627	(2)	128,691	(3)	16
Black, not Hispanic	1,319,907	(28)	1,301,106	(28)	-1
Hispanic	1,106,902	(24)	1,144,865	(24)	3
White, not Hispanic	2,089,988	(44)	2,054,558	(43)	-2
Total[c/]	4,709,781	(100)	4,700,114	(100)	*

* Less than 1 percent.

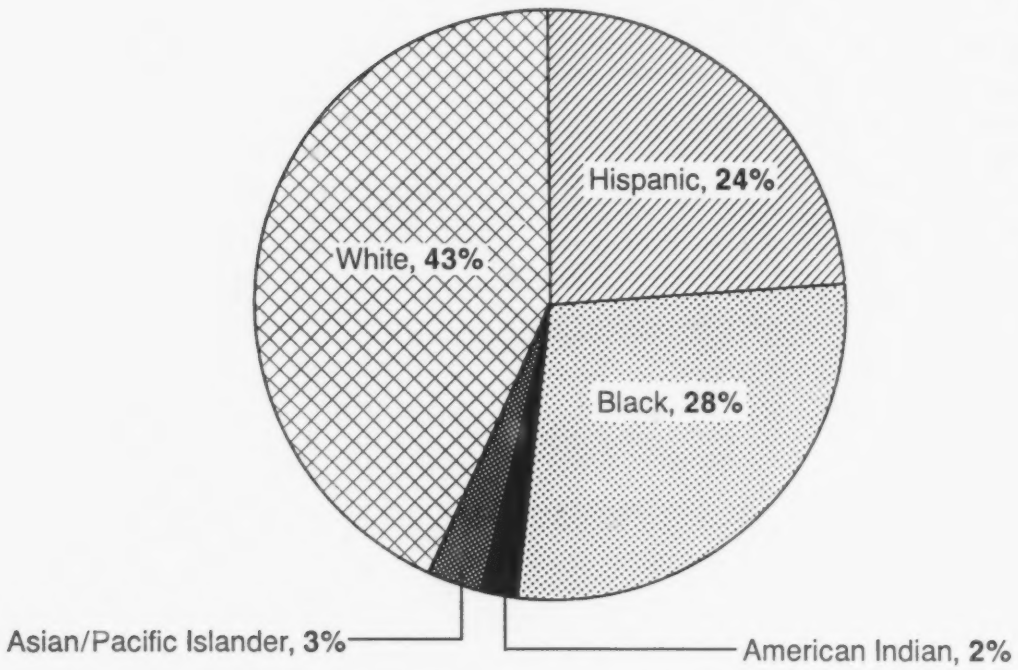
a/ The decrease in the number reported as American Indian or Alaskan Native is due primarily to Arizona, which reported 9,750 less students in this category in 1986-87 than in 1985-86. In 1985-86 and 1986-87, Arizona reported State Performance Report participation information based on a sample of school districts.

b/ The increase in the number reported as Asian or Pacific Islander is due primarily to California, which reported 17,104 more Asian or Pacific Islander participants, from 53,251 to 70,355.

c/ One state (Vermont) did not report racial/ethnic data in 1985-86 or 1986-87. In 1986-87, the total number on this table will not correspond to the total on Table 1.1 for three reasons. First, all Chapter 1 by-pass students were included in the number by grade, but not all were included in the number by racial/ethnic classification. By-pass participants were included by grade in Missouri (2,761 participants), and by grade and racial/ethnic classification in Virginia (568 participants). Second, in 10 states, the total number reported by racial/ethnic classification was not the same as the total number reported by grade (including Vermont). The largest differences were found in California, which reported 20,719 fewer participants by racial/ethnic classification than by grade, and Missouri, which reported 4,817 more participants by racial/ethnic classification than by grade. Third, the total reported by Puerto Rico includes 7,016 participants for whom no demographic information was reported.

Figure 1.7

Chapter 1 Participants by Racial/Ethnic Classification, 1986-87



Total = 4,700,114

Note: The total represents the total number of participants for which data were reported.

Table 1.16

Chapter 1 Participants by Year of Birth -- 1986-87

Year of Birth	Number	Percent
Born 1985-81 (preschool)	338,209	7
Born 1980-75 (elementary)	3,112,129	66
Born 1974-72 (junior high)	909,405	19
Born 1971-69 (high school)	310,464	7
Born 1968-64 (> 18 years old)	26,721	1
Total[a/]	4,696,928	100

a/ The total number on this table will not correspond to the total on Table 1.1 for three reasons. First, all Chapter 1 by-pass students were included in the number by grade, but not all were included in the number by year of birth. By-pass participants were included by grade in Missouri (2,761 participants), and by grade and year of birth in Virginia (568 participants). Second, in 11 states, the total number reported by year of birth was not the same as the total number reported by grade. The largest differences were found in California, which reported 29,230 fewer participants by year of birth than by grade, and Missouri, which reported 4,539 more participants by year of birth than by grade. Third, the total reported by Puerto Rico includes 7,016 participants for whom no demographic information was reported.

Table 1.17

Chapter 1 Participants by Gender -- 1986-87

Gender	Number	Percent
Male	2,590,400	55
Female	2,110,289	45
Total[a/]	4,700,689	100

a/ The total number on this table will not correspond to the total on Table 1.1 for three reasons. First, all Chapter 1 by-pass students were included in the number by grade, but not all were included in the number by gender. By-pass participants were included by grade in Missouri (2,761 participants), and by grade and gender in Virginia (568 participants). Second, in 11 states, the total number reported by gender was not the same as the total number reported by grade. The largest differences were found in California, which reported 25,713 fewer participants by gender than by grade, and Missouri, which reported 4,992 more participants by gender than by grade. Third, the total reported by Puerto Rico includes 7,016 participants for whom no demographic information was reported.

CHAPTER 2

ACHIEVEMENT INFORMATION FOR CHAPTER 1 LEA PROGRAMS

This chapter provides information on the achievement data submitted by the Chapter 1 LEA programs. The achievement data for 1986-87 participants is detailed, as well as trends for the years 1979-80 through 1986-87.

NUMBER OF STATES REPORTING

Forty-nine states, Puerto Rico, and the Bureau of Indian Affairs reported achievement data in 1986-87 using the standard format required under ESEA Title I. Forty-three states and the Bureau of Indian Affairs reported scores from an annual test cycle.

Forty-nine states, Puerto Rico and the Bureau of Indian Affairs submitted achievement data in 1986-87.[22] All of the states and the Bureau of Indian Affairs reported their achievement data using the standard format that was required under ESEA Title I. The Title I reporting format called for membership, number tested, posttest normal curve equivalent (NCE) score, and NCE gain score.[23] Only those states and the Bureau of Indian Affairs which reported scores from an annual testing cycle are included in this section of the report. Achievement information reported from a fall-spring testing cycle is included in Appendices D through F.

Achievement data for reading and mathematics were reported for grades 2 through 12, although each state did not necessarily report all grades. Annual testing cycle data consisted of fall-fall testing, spring-spring testing, or a combination of the two. Forty-three states and the Bureau of Indian Affairs reported on an annual cycle.

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[22]Connecticut did not submit achievement data because 1986-87 was a non-reporting year for compensatory programs. The District of Columbia did not submit its achievement data. Tennessee submitted achievement data for both 1985-86 and 1986-87. Due to the nature of the tests given by Puerto Rico, its achievement data were not comparable to that provided by the states and the Bureau of Indian Affairs.

[23]The NCE is a type of standard score resulting from the division of the normal curve into 99 equal units, and is derived from the percentile rank. The 50th percentile (i.e., an NCE of 50) is the national norm. See Appendix F for an explanation of the relationship between NCEs and percentiles.

There were 1,007,049 Chapter 1 students tested in reading on an annual cycle, and 629,726 Chapter 1 students tested in mathematics on an annual cycle.

A relatively small number of Chapter 1 students were tested in the secondary grades compared to the number of Chapter 1 students tested in the elementary grades. For both reading and mathematics, over 75 percent of the Chapter 1 students tested were in grades 2 through 6. And for both reading and mathematics, over 90 percent of the Chapter 1 students tested were in grades 2 through 8. Less than 10 percent of the Chapter 1 students tested were in grades 9 through 12.

ACHIEVEMENT RESULTS IN READING, 1986-87

For Chapter 1 students tested in reading, increases in percentile ranks were found in every grade.

Chapter 1 students tested in reading on an annual cycle showed increases in percentile ranks from the pretest to the posttest in every grade, ranging from 2 to 6. The highest increases were found in grades 3, 4, and 6 (gains of 5 and 6).

Pretest percentiles ranged from 16 in grade 12 to 24 in grade 2, and posttest percentiles ranged from 18 in grade 12 to 28 in grades 2 and 4. (Table 2.1)

ACHIEVEMENT RESULTS IN MATHEMATICS, 1986-87

For Chapter 1 students tested in mathematics, increases in percentile ranks were seen in every grade.

Increases in each grade were found for Chapter 1 students tested on an annual cycle in mathematics. The increases in percentile ranks from the pretest to the posttest ranged from 3 in grades 10 and 11 to 10 in grade 2. The largest increases were found in grades 2 through 6.

The pretest percentiles ranged from a low of 25 in grades 4 and 12 to a high of 30 in grade 11. Posttest percentiles fell in the range of 29 in grade 12 to 38 in grade 2. (Table 2.2)

TRENDS IN ACHIEVEMENT FROM 1979-80 TO 1986-87

Across all grades, the achievement results show consistency in the percentile changes from 1979-80 to 1986-87.

For reading, the size of the changes in percentile ranks from the pretest to the posttest have remained about the same over the eight-year period for Chapter 1 students tested on an annual cycle. In most cases, the changes have been positive. In mathematics, consistently positive changes have been reported, and moreover, the size of the gains in percentile ranks has generally increased over the eight-year period. (Tables 2.3 and 2.4. See also Figures 2.1 through 2.11 for a graphic depiction of the changes in percentile ranks for each year for both reading and mathematics in each of grades 2 through 12.)

Pretest percentiles, an indicator of the achievement level at which the Chapter 1 students begin, have stayed fairly constant over the eight-year period, and have been well below the norm. (Tables 2.5 and 2.6)

Table 2.1

Reading Achievement Results for Chapter 1 Students
Tested on an Annual Cycle -- 1986-87

Grade	Weighted Number Tested	Number of States Reporting	Percentile		
			Pretest	Posttest	Change
2	160,537	44	24	28	4
3	171,646	44	21	26	5
4	168,241	44	22	28	6
5	148,932	44	23	27	4
6	118,373	44	22	27	5
7	90,989	44	23	26	3
8	76,623	44	22	25	3
9	31,256	38	22	24	2
10	22,098	36	22	24	2
11	12,081	32	19	22	3
12	6,273	27	16	18	2

Table 2.2

Mathematics Achievement Results for Chapter 1 Students
Tested on an Annual Cycle -- 1986-87

Grade	Weighted Number Tested	Number of States Reporting	Percentile		
			Pretest	Posttest	Change
2	84,661	44	28	38	10
3	98,170	44	26	33	7
4	105,905	44	25	33	8
5	100,402	44	26	33	7
6	77,758	44	26	33	7
7	61,112	44	27	32	5
8	54,364	44	26	30	4
9	20,982	36	29	34	5
10	14,590	29	29	32	3
11	8,195	25	30	33	3
12	3,587	20	25	29	4

Table 2.3

Reading Achievement Posttest Percentiles and Percentile Gains for Chapter 1 Students Tested on an Annual Cycle -- 1979-80 to 1986-87

	Posttest Percentile							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	29	29	29	32	31	30	30	28
3	26	28	25	29	28	27	28	26
4	26	26	26	28	28	27	29	28
5	25	27	27	28	28	27	28	27
6	26	28	28	29	28	26	28	27
7	24	25	26	27	27	27	26	26
8	24	25	27	26	26	25	25	25
9	21	23	24	25	25	22	24	24
10	16	19	18	20	19	20	21	24
11	11	20	18	18	17	20	22	22
12	13	16	17	16	16	17	20	18

	Changes in Percentile Ranks							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	2	2	2	2	2	3	2	4
3	4	5	3	4	4	4	5	5
4	3	4	4	4	4	5	5	6
5	3	5	5	5	5	6	5	4
6	4	6	5	6	5	5	5	5
7	2	3	4	3	4	6	4	3
8	3	4	5	4	4	4	4	3
9	2	4	4	4	3	2	3	2
10	-1	2	1	2	1	2	2	2
11	-3	3	1	-1	0	2	3	3
12	4	0	2	0	1	0	0	2

Table 2.4

Mathematics Achievement Posttest Percentiles and Percentile Gains for Chapter 1 Students Tested on an Annual Cycle -- 1979-80 to 1986-87

	Posttest Percentile							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	36	39	35	41	40	38	39	38
3	31	33	31	37	36	34	35	33
4	30	33	32	33	33	33	33	33
5	29	32	33	35	34	34	35	33
6	30	33	33	35	34	33	36	33
7	26	28	29	32	30	30	32	32
8	26	29	30	32	32	32	32	30
9	23	26	27	31	31	29	30	34
10	18	22	22	27	24	27	32	32
11	23	23	25	28	26	30	36	33
12	23	22	22	26	24	29	35	29

	Changes in Percentile Ranks							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	2	5	5	3	6	6	9	10
3	1	3	5	5	6	4	6	7
4	3	6	5	4	5	6	6	8
5	4	4	6	8	7	7	9	7
6	6	8	6	8	7	6	7	7
7	4	3	5	7	5	6	6	5
8	4	5	5	6	5	5	4	4
9	1	1	2	3	1	2	2	5
10	-2	1	0	2	1	2	4	3
11	1	2	1	1	2	3	4	3
12	2	0	1	0	3	2	2	4

Figure 2.1

Changes in Percentile Ranks
Grade 2 - Annual Test Cycle

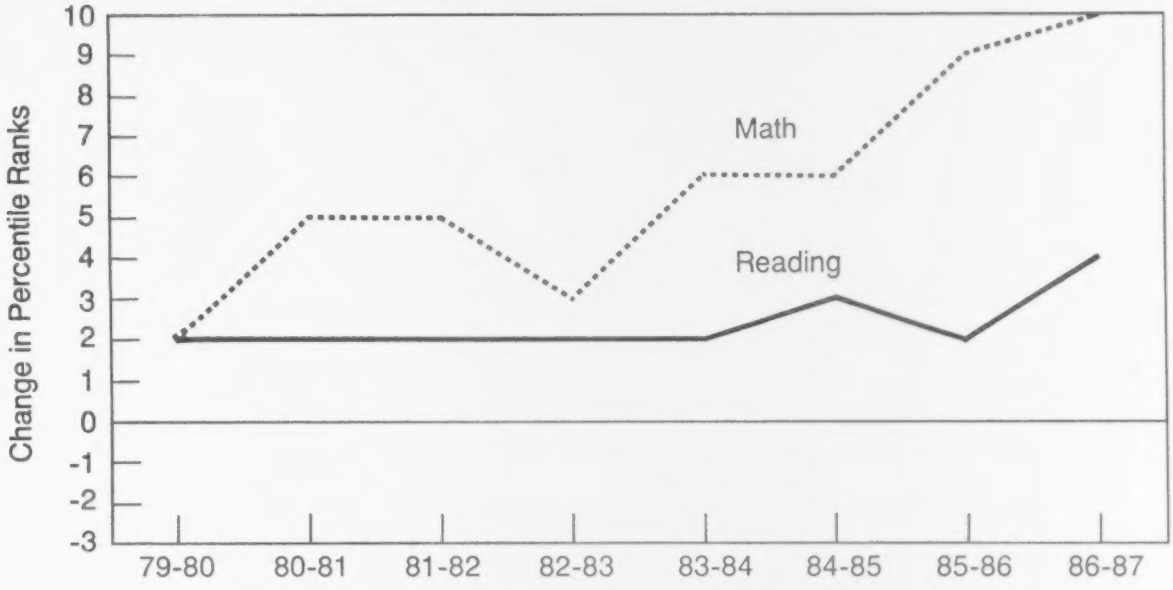

Figure 2.2

Changes in Percentile Ranks
Grade 3 - Annual Test Cycle

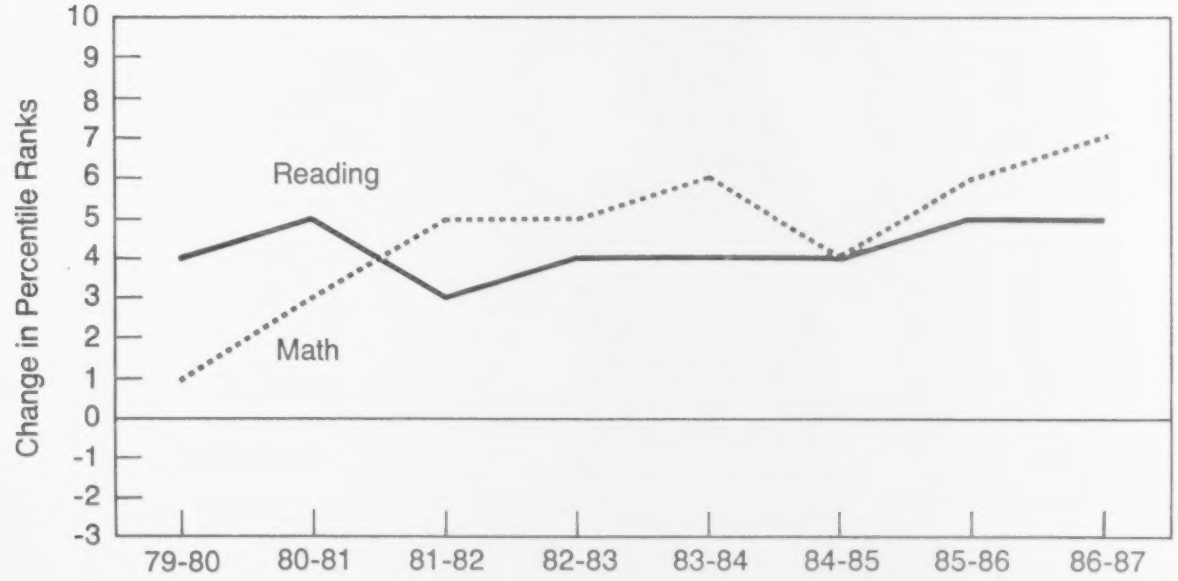

Figure 2.3

Changes in Percentile Ranks
Grade 4 - Annual Test Cycle

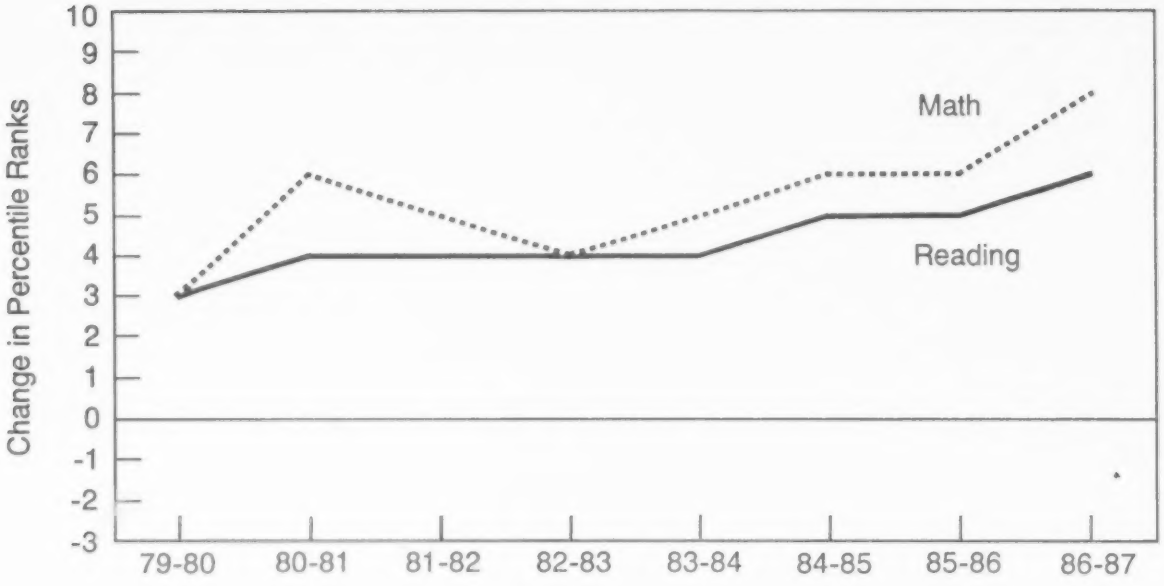

Figure 2.4

Changes in Percentile Ranks
Grade 5 - Annual Test Cycle

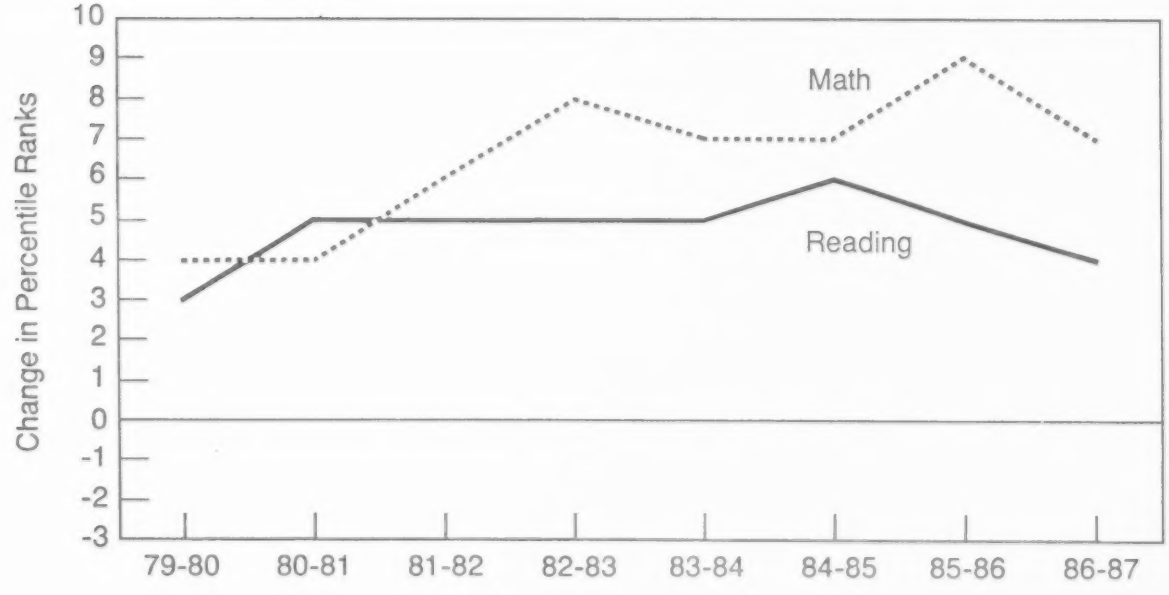

Figure 2.5

Changes in Percentile Ranks
Grade 6 - Annual Test Cycle

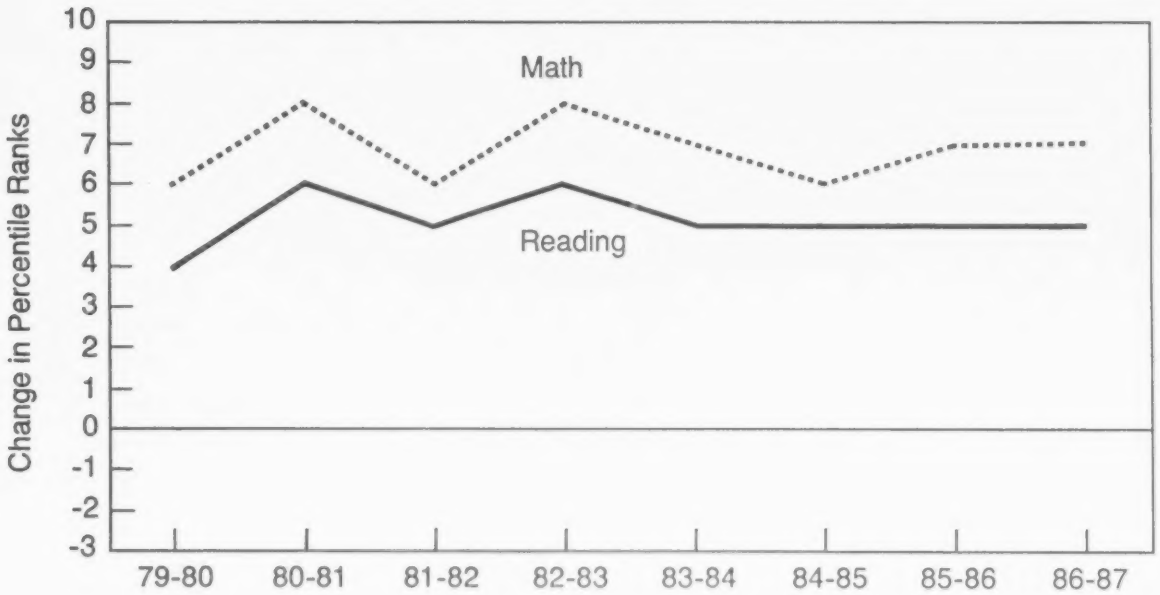

Figure 2.6

Changes in Percentile Ranks
Grade 7 - Annual Test Cycle

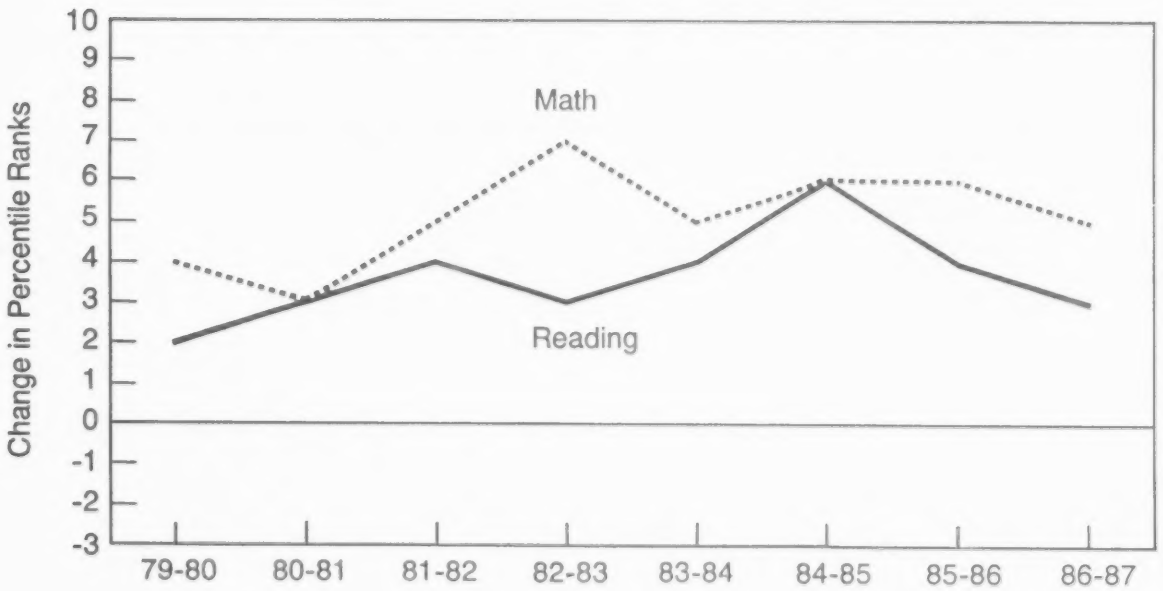

Figure 2.7

Changes in Percentile Ranks
Grade 8 - Annual Test Cycle

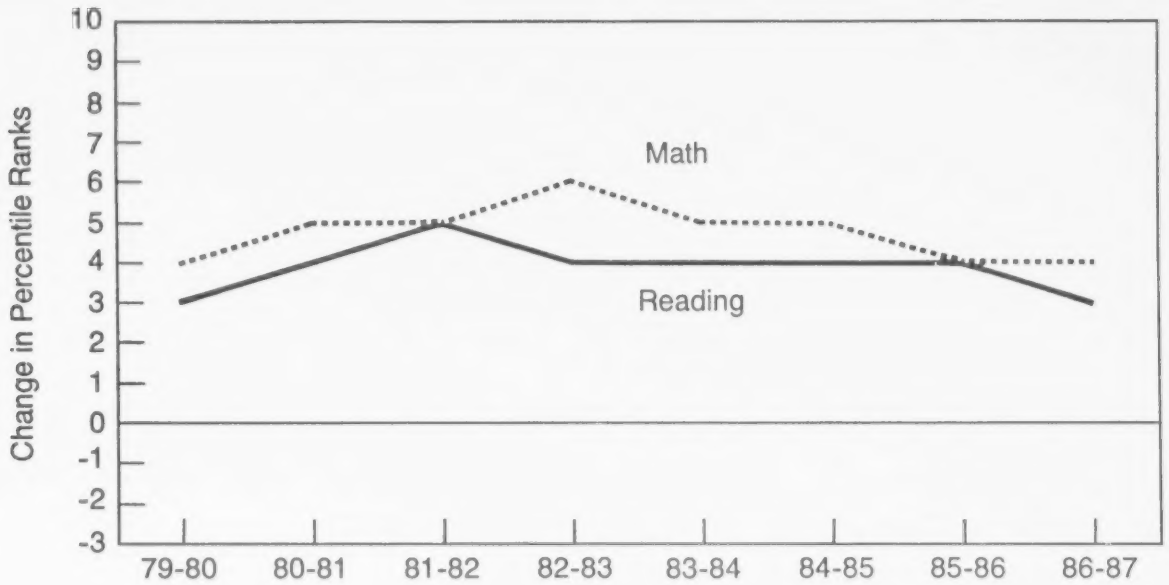

Figure 2.8

Changes in Percentile Ranks
Grade 9 - Annual Test Cycle

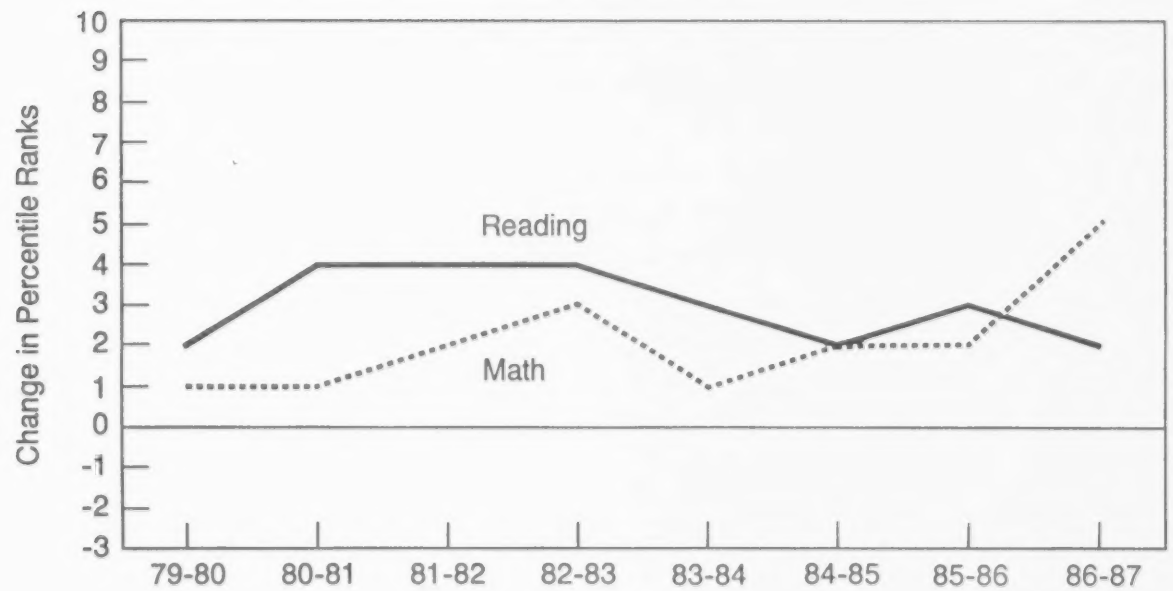

Figure 2.9

Changes in Percentile Ranks
Grade 10 - Annual Test Cycle

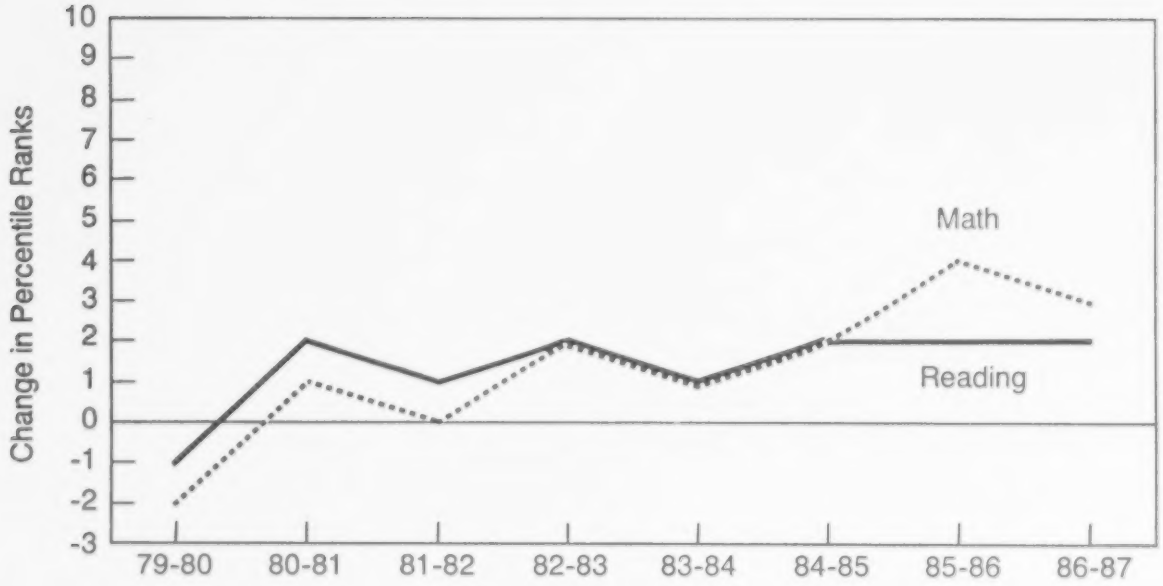

Figure 2.10

Changes in Percentile Ranks
Grade 11 - Annual Test Cycle

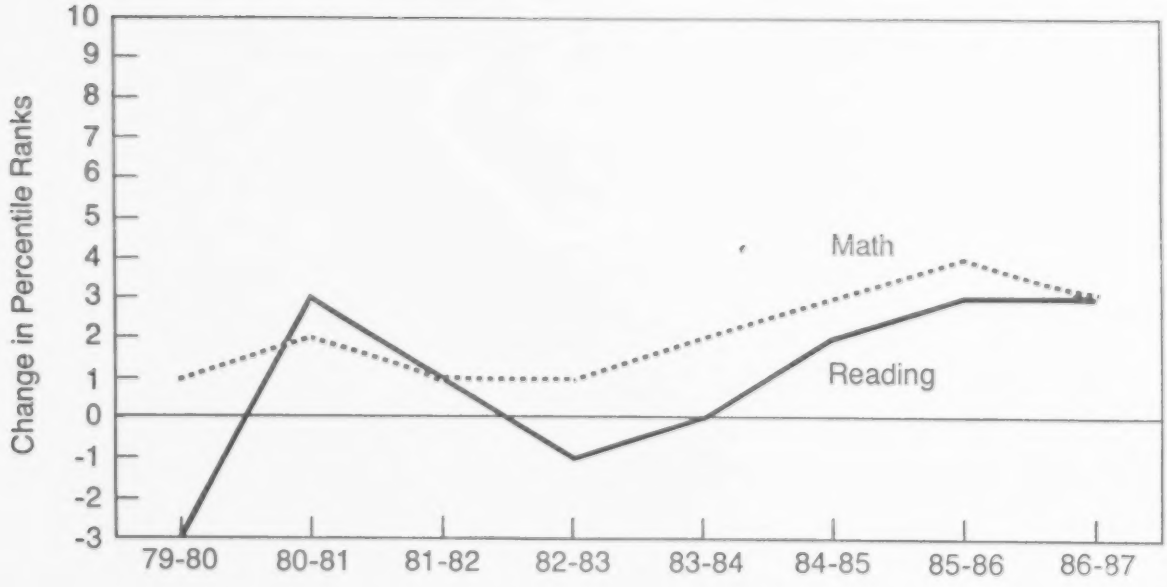

Figure 2.11

Changes in Percentile Ranks
Grade 12 - Annual Test Cycle

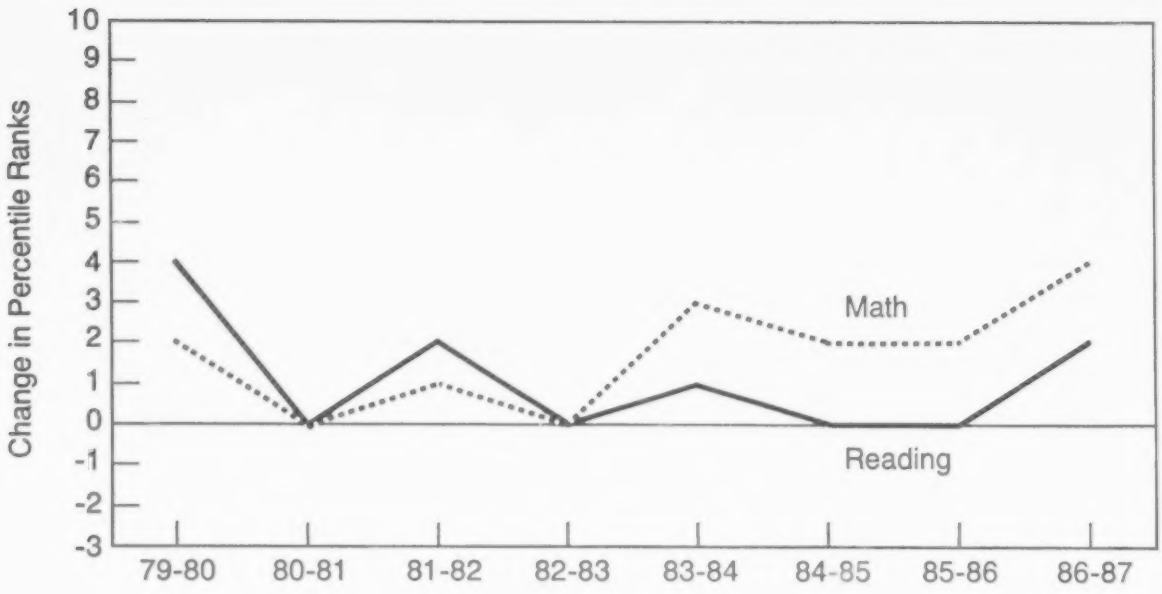

Table 2.5

Reading Achievement Pretest Percentiles for Chapter 1 Students Tested on an Annual Cycle -- 1979-80 to 1986-87

	Pretest Percentiles							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	27	27	27	30	29	27	28	24
3	22	23	22	25	24	23	24	21
4	23	22	22	24	24	22	24	22
5	22	22	22	23	23	21	23	23
6	22	22	23	23	23	21	23	22
7	22	22	22	24	23	21	22	23
8	21	21	22	22	22	21	21	22
9	19	19	20	21	22	20	21	22
10	17	17	17	18	18	18	19	22
11	14	17	17	19	17	18	19	19
12	11	16	15	16	15	17	20	16

Table 2.6

Mathematics Achievement Pretest Percentiles for Chapter 1 Students Tested on an Annual Cycle -- 1979-80 to 1986-87

	Pretest Percentiles							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	34	34	30	38	34	32	30	28
3	30	30	26	32	30	30	29	26
4	27	27	27	29	28	27	27	25
5	25	28	27	27	27	27	26	26
6	24	25	26	27	27	27	29	26
7	22	25	24	25	25	24	26	27
8	22	24	25	26	27	27	28	26
9	22	25	25	28	30	27	28	29
10	20	21	22	25	23	25	28	29
11	22	21	24	27	24	27	32	30
12	21	22	21	26	21	27	33	25

CHAPTER 3

ALLOCATION AND COST INFORMATION FOR CHAPTER 1 LEA PROGRAMS

This chapter presents national and state-by-state information on the 1986-87 funding for Chapter 1 LEA programs for the 50 states, the District of Columbia, Puerto Rico, and the Bureau of Indian Affairs. Information on both total allocations and per participant Chapter 1 funding is presented.

CHAPTER 1 ALLOCATIONS

The Chapter 1 funding for 1986-87 was approximately $3.0 billion, a 4 percent decrease from the 1985-86 allocations.

Chapter 1 allocations to the 50 states, the District of Columbia, Puerto Rico, and the Bureau of Indian Affairs for 1986-87 totaled approximately $3.0 billion, a 4 percent decrease from the 1985-86 allocations of close to $3.2 billion.[24]

State Chapter 1 allocations for 1986-87 ranged from $3.8 million in Wyoming to $321.5 million in New York. Only two states, California and Indiana, and Puerto Rico received increases in allocations from 1985-86 to 1986-87. These increases ranged from less than 1 percent to 1 percent. All other states, the District of Columbia, and the Bureau of Indian Affairs received smaller allocations in 1986-87 than in 1985-86. The decreases ranged from 1 percent in Missouri to 13 percent in Louisiana. (Table 3.1)

Nine states and Puerto Rico received grants of over $100 million, and ten states received grants of under $10 million.

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[24]The total 1986-87 Chapter 1 allocations also included $12.6 million for American Samoa, Guam, the Trust Territories, Northern Mariana, and the Virgin Islands. These territories are not included in this report, and their funds are not included in the total reported.

CHAPTER 1 DOLLARS PER PARTICIPANT

The Chapter 1 dollars per participant was $644 in 1986-87, a 4 percent decrease from the previous year's figure of $672 per participant.

In 1986-87, for the nation as a whole, the Chapter 1 dollars per participant was $644. Individually, the dollars per participant ranged from a low of $368 per participant in California, to a high of $1,473 per participant in the Bureau of Indian Affairs. Only four states and Puerto Rico had Chapter 1 dollars per participant of less than $500. Seven states and the Bureau of Indian Affairs had Chapter 1 dollars per participant of $900 or more. (Table 3.2)

Overall, there was a 4 percent decrease in the Chapter 1 dollars per participant from 1985-86 to 1986-87.[25] Individually the differences ranged from a 35 percent decrease in Iowa to a 19 percent increase in Arizona and Maryland.[26] Fifteen states and Puerto Rico experienced increases between 1985-86 and 1986-87. Thirty-five states, the District of Columbia, and the Bureau of Indian Affairs had decreases between 1985-86 and 1986-87. (Table 3.2)

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[25]The Chapter 1 dollars per participant figures were computed in the following way: the allocation to the state for a given year was divided by the number of Chapter 1 participants the state reported during that year. The allocation information was obtained from the ED Budget Office. This calculation does not take into account funds which may have been held over from the previous year.

Since the number of public school participants was adjusted for California, the national 1985-86 Chapter 1 dollars per participant figure has changed from the figure previously reported.

[26]Because Arizona samples its school districts for participation information, the increase of 19 percent in the Chapter 1 dollars per participant in that state may be due to the inclusion or exclusion of districts from one year to the next.

Table 3.1

Chapter 1 Allocations for LEA Programs -- 1985-86 and 1986-87

STATE	1985-86 LEA GRANTS	1986-87 LEA GRANTS	% CHANGE 85-86 TO 86-87
ALABAMA	65,429,310	62,715,845	-4
ALASKA	5,219,863	5,015,560	-4
ARIZONA	32,654,030	31,534,906	-3
ARKANSAS	38,057,333	36,252,986	-5
CALIFORNIA	285,594,569	287,891,034	1
COLORADO	30,707,154	28,887,092	-6
CONNECTICUT	34,988,874	33,438,207	-4
DELAWARE	9,006,509	8,855,741	-2
DISTRICT OF COLUMBIA	14,521,336	13,825,197	-5
FLORIDA	129,758,445	126,830,704	-2
GEORGIA	85,105,878	81,565,310	-4
HAWAII	10,801,840	9,890,327	-8
IDAHO	9,256,844	8,856,541	-4
ILLINOIS	153,385,640	144,481,176	-6
INDIANA	46,200,949	46,229,392	*
IOWA	29,043,469	27,293,094	-6
KANSAS	22,492,674	21,366,883	-5
KENTUCKY	56,388,199	54,398,710	-4
LOUISIANA	86,122,438	74,544,409	-13
MAINE	13,441,337	13,025,103	-3
MARYLAND	54,386,509	52,844,185	-3
MASSACHUSETTS	72,888,609	67,788,722	-7
MICHIGAN	127,362,379	122,975,435	-3
MINNESOTA	38,854,635	37,662,572	-3
MISSISSIPPI	60,186,008	57,447,668	-5
MISSOURI	50,246,830	49,642,585	-1
MONTANA	10,444,356	10,071,157	-4
NEBRASKA	16,765,413	15,948,150	-5
NEVADA	5,993,466	5,442,706	-9
NEW HAMPSHIRE	7,465,308	7,161,390	-4
NEW JERSEY	106,524,969	101,627,361	-5
NEW MEXICO	27,349,062	24,358,688	-11
NEW YORK	337,751,662	321,529,318	-5
NORTH CAROLINA	76,083,570	72,399,812	-5
NORTH DAKOTA	7,465,234	7,071,194	-5
OHIO	111,078,740	109,122,668	-2
OKLAHOMA	38,164,856	34,645,546	-9
OREGON	28,879,782	26,950,191	-7
PENNSYLVANIA	153,904,842	148,850,157	-3
RHODE ISLAND	12,317,632	11,747,508	-5
SOUTH CAROLINA	49,471,134	47,254,856	-4
SOUTH DAKOTA	9,630,948	9,204,233	-4
TENNESSEE	67,182,436	64,077,528	-5
TEXAS	222,666,926	201,060,728	-10
UTAH	10,980,390	10,574,087	-4
VERMONT	6,930,916	6,286,218	-9
VIRGINIA	60,405,097	58,768,834	-3
WASHINGTON	42,134,587	40,231,816	-5
WEST VIRGINIA	30,085,597	28,017,814	-7
WISCONSIN	49,471,561	46,815,897	-5
WYOMING	3,948,509	3,830,680	-3
PUERTO RICO	108,413,618	109,268,447	1
BIA	23,224,101	22,225,768	-4
NATION	$3,186,836,373	$3,049,802,236	-4

*Less than 1 percent.

Table 3.2

Chapter 1 Dollars Per Participant for LEA Programs -- 1985-86 and 1986-87

	1985-86 DOLLARS PER PARTICIPANT	1986-87 DOLLARS PER PARTICIPANT	% CHANGE 85-86 TO 86-87
Alabama	$556	$546	-2
Alaska	$1,214	$1,058	-13
Arizona	$520	$617	19
Arkansas	$579	$580	*
California	$433	$368	-15
Colorado	$785	$800	2
Connecticut	$649	$614	-5
Delaware	$932	$824	-12
District of Columbia	$896	$865	-3
Florida	$856	$936	9
Georgia	$694	$601	-13
Hawaii	$763	$693	-9
Idaho	$550	$496	-10
Illinois	$943	$906	-4
Indiana	$432	$452	5
Iowa	$1,141	$745	-35
Kansas	$633	$625	-1
Kentucky	$556	$590	6
Louisiana	$795	$700	-12
Maine	$618	$501	-19
Maryland	$768	$916	19
Massachusetts	$859	$854	-1
Michigan	$818	$845	3
Minnesota	$689	$636	-8
Mississippi	$647	$607	-6
Missouri	$679	$668	-2
Montana	$783	$727	-7
Nebraska	$671	$598	-11
Nevada	$638	$668	5
New Hampshire	$631	$712	13
New Jersey	$641	$554	-13
New Mexico	$862	$837	-3
New York	$986	$1,000	1
North Carolina	$607	$636	5
North Dakota	$819	$774	-5
Ohio	$813	$835	3
Oklahoma	$615	$591	-4
Oregon	$677	$632	-7
Pennsylvania	$707	$703	-1
Rhode Island	$962	$860	-11
South Carolina	$939	$920	-2
South Dakota	$741	$719	-3
Tennessee	$650	$625	-4
Texas	$609	$567	-7
Utah	$448	$479	7
Vermont	$704	$683	-3
Virginia	$781	$795	2
Washington	$646	$644	*
West Virginia	$895	$883	-1
Wisconsin	$713	$703	-1
Wyoming	$958	$953	-1
Puerto Rico	$403	$437	8
BIA	$1,499	$1,473	-2
Nation	$672	$644	-4

*Less than 1 percent.

CHAPTER 4

INFORMATION ON STATE AGENCY NEGLECTED OR DELINQUENT PROGRAMS FOR 1986-87

This chapter provides an overview of Chapter 1 State Agency Neglected or Delinquent (N or D) programs for 1986-87. The information that is provided is similar to that found earlier for Chapter 1 LEA grants. Participation counts are detailed by institutional designation (neglected, delinquent, and adult correctional), age span, service area, gender, and race/ethnicity. The chapter concludes with a discussion of the state allocations for this program.

Because these participants were housed in state institutions, the Chapter 1 programs through which they were served were often not administered by the State Department of Education. The Chapter 1 State Agency N or D programs could be administered, for example, through the State Department of Corrections or the State Bureau of Prisons.

All of the states, the District of Columbia, and Puerto Rico reported individuals receiving services through State Agency N or D programs. The Bureau of Indian Affairs reported no participants in these programs.

PARTICIPATION BY INSTITUTIONAL DESIGNATION

Approximately two-thirds of the State Agency N or D participants were classified as delinquent, and one-third were classified as adult correctional.

The total number of participants in Chapter 1 State Agency N or D programs in 1986-87 was 56,236. Sixty-two percent of these participants were classified as delinquent, 32 percent were classified as adult correctional, and 6 percent were classified as neglected. (Table 4.1) The total number of participants in 1986-87 represented a 7 percent increase over the number of participants in 1985-86, however, the distribution by institutional designation remained the same.[27]

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[27]There were 52,781 participants in Chapter 1 State Agency N or D programs in 1985-86. Sixty-one percent were classified as delinquent, 35 percent were classified as adult correctional, and 4 percent were classified as neglected.

PARTICIPATION BY AGE SPAN

More than one-half of the State Agency N or D participants were 17 through 21 years old.

The largest age group, over one-half of the participants in Chapter 1 State Agency N or D programs in 1986-87, were those participants who were 17 through 21 years old. Thirty-nine percent were 14 through 16 years old, and 6 percent were 13 years old or younger. (Table 4.1)

Among participants in the 0 through 9 year old age span, virtually all were classified as neglected. In the 10 through 13 year old age span, two-thirds were classified as delinquent and one-third were classified as neglected. Ninety-one percent of the participants in the 14 through 16 year old age span were classified as delinquent. The final age span, 17 through 21 years old, consisted of 43 percent delinquent and 55 percent adult correctional. (Table 4.1)

PARTICIPATION BY SERVICE AREA

Almost three-quarters of the State Agency N or D participants received reading instruction, and two-thirds received mathematics instruction.

Most of the participants in Chapter 1 State Agency N or D programs in 1986-87 received reading instruction (72 percent). Those receiving mathematics instruction totaled 65 percent of all participants. The overall distributions of instructional services closely resemble the individual distributions by type of participant, with the exception of mathematics instructions for neglected participants. A larger proportion, 71 percent, of neglected participants received mathematics instruction than was found for delinquent participants, adult correctional participants, or overall. Approximately one-third of the participants, overall and by institutional designation, received other language arts instruction. (Table 4.2)

While the distribution of instructional services remained constant regardless of the institutional designation, there were differences in the distribution of support services. Few neglected participants received any support services. There were delinquent participants in each category of support services, although the percentages were low. Only among adult correctional participants was there a large proportion receiving support services. Over one-third of the adult correctional participants received attendance, social work, and guidance services. (Table 4.2)

As with Chapter 1 LEA programs, there were some states which did not provide supporting services, while all states provided instructional services. Thirty-three states did not provide supporting services to State Agency N or D participants.

PARTICIPATION BY GENDER

Eighty-nine percent of the State Agency N or D participants were male, and 11 percent were female.

There were 55,834 participants reported by gender in Chapter 1 State Agency N or D programs in 1986-87.[28] Eighty-nine percent were male, and 11 percent were female.

PARTICIPATION BY RACIAL/ETHNIC CLASSIFICATION

Approximately one-half of the State Agency N or D participants were black.

There were 55,381 participants reported by racial/ethnic classification.[29] Almost one-half were black, and 37 percent were white. Fifteen percent were Hispanic, and two percent were American Indian or Alaskan Native, and Asian or Pacific Islander. (Table 4.3)

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[28]The total reported by gender does not equal the total reported by age span because in four states, Arkansas, California, New Hampshire, and Utah, the total reported by gender did not equal the total reported by age span. The largest difference was found in California, where 349 less participants were reported by gender than by age span.

[29]The total reported by racial/ethnic classification does not equal the total reported by age span because in six states, Arkansas, California, New Hampshire, Utah, Vermont, and Washington, the total number reported by racial/ethnic classification was not the same as the total number reported by age span. The largest difference was found in California, where 499 less participants were reported by racial/ethnic classification than age span. Vermont did not provide any information by racial/ethnic classification.

CHAPTER 1 STATE AGENCY N OR D ALLOCATIONS

The allocations for Chapter 1 State Agency N or D programs in 1986-87 was $31.2 million.

The 1986-87 allocations for Chapter 1 State Agency N or D programs for the 50 states, the District of Columbia, and Puerto Rico was $31.2 million, a decrease of four percent from the 1985-86 funding.[30] Levels of funding ranged from $18,470 in Rhode Island to $3.4 million in New York. (Table 4.4)

Ten states received over $1 million each for their Chapter 1 State Agency N or D programs. Eight of these states (California, Florida, Michigan, New Jersey, New York, Ohio, Pennsylvania, and Texas) were also among the states receiving the largest Chapter 1 LEA grants. In addition, eight states received less than $100,000. (Table 4.4)

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[30]The 1985-86 Chapter 1 State Agency N or D allocation was $32,616,000 for the 50 states, the District of Columbia, and Puerto Rico.

Table 4.1

Chapter 1 State Agency Neglected or Delinquent Students by Age Span, Neglected, Delinquent, Adult Correctional, and Total -- 1986-87

Age Span (Years)	Neglected		Delinquent		Adult Correctional		Total	
	Number	(Percent[a/])	Number	(Percent[a/])	Number	(Percent[a/])	Number	(Percent[a/])
0-9	351	(11)	2	(*)	0	(0)	353	(1)
10-13	853	(27)	1,792	(5)	2	(*)	2,647	(5)
14-16	1,322	(42)	19,858	(57)	678	(4)	21,858	(39)
17-21	622	(20)	13,416	(38)	17,340	(96)	31,378	(56)
Total	3,148	(100)	35,068	(100)	18,020	(100)	56,236	(100)

a/ Percents may not add to 100 due to rounding.

* Less than 1 percent.

Table 4.2

Chapter I State Agency Neglected or Delinquent Students Receiving Chapter I Services by Service Area, Neglected, Delinquent, Adult Correctional, and Total -- 1986-87

	Neglected		Delinquent		Adult Correctional		Total	
	Number	(Percent) (Served)	Number	(Percent) (Served)	Number	(Percent) (Served)	Number	(Percent) (Served)
Instructional								
Reading	2,395	(76)	25,351	(72)	12,570	(70)	40,316	(72)
Other Language Arts	1,032	(33)	10,205	(29)	6,313	(35)	17,550	(31)
Mathematics	2,222	(71)	23,270	(66)	10,828	(60)	36,320	(65)
Other Instructional	651	(21)	5,099	(15)	1,877	(10)	7,627	(14)
Participant Count[a/]	3,148		35,068		18,020		56,236	
Supporting								
Attendance, Social Work, and Guidance	99	(3)	5,367	(15)	6,418	(36)	11,884	(21)
Health and Nutrition	0	(0)	2,912	(8)	105	(1)	3,017	(5)
Transportation	0	(0)	198	(1)	0	(0)	198	(*)
Other Supporting	105	(3)	175	(*)	32	(*)	312	(1)
Participant Count[a/]	3,148		35,068		18,020		56,236	

a/ These figures represent the number of participants reported by age span and by institutional designation (see Table 4.1).

* Less than 1 percent.

Table 4.3

Chapter 1 State Agency Neglected or Delinquent Students
by Racial/Ethnic Classification -- 1986-87

Racial/Ethnic Classification	Number	Percent
American Indian or Alaskan Native	795	1
Asian or Pacific Islander	582	1
Black, not Hispanic	25,318	46
Hispanic	8,360	15
White, not Hispanic	20,326	37
Total[a/]	55,381	100

a/ The total on this table will not correspond to the total on Table 4.1 because in six states, Arkansas, California, New Hampshire, Utah, Vermont, and Washington, the total number reported by racial/ethnic classification was not the same as the total number reported by age span. The largest difference was found in California, where 499 less participants were reported by racial/ethnic classification than age span. Vermont did not provide information by racial/ethnic classification.

Table 4.4

Chapter 1 Allocations for the
State Agency Neglected or Delinquent Program --
1986-87

STATE	1986-87 N OR D ALLOCATION
ALABAMA	$311,747
ALASKA	188,056
ARIZONA	536,098
ARKANSAS	257,457
CALIFORNIA	2,740,150
COLORADO	322,503
CONNECTICUT	1,215,646
DISTRICT OF COLUMBIA	481,893
DELAWARE	168,746
FLORIDA	1,472,323
GEORGIA	802,595
HAWAII	57,239
IDAHO	56,529
ILLINOIS	942,387
INDIANA	735,493
IOWA	364,590
KANSAS	504,789
KENTUCKY	363,798
LOUISIANA	637,655
MAINE	172,579
MARYLAND	1,239,153
MASSACHUSETTS	399,118
MICHIGAN	1,404,085
MINNESOTA	363,993
MISSISSIPPI	312,307
MISSOURI	286,131
MONTANA	143,776
NEBRASKA	106,472
NEVADA	156,926
NEW HAMPSHIRE	80,319
NEW JERSEY	1,284,488
NEW MEXICO	299,621
NEW YORK	3,426,141
NORTH CAROLINA	973,300
NORTH DAKOTA	62,323
OHIO	1,488,281
OKLAHOMA	168,897
OREGON	689,303
PENNSYLVANIA	1,034,668
RHODE ISLAND	18,470
SOUTH CAROLINA	672,747
SOUTH DAKOTA	76,155
TENNESSEE	810,431
TEXAS	1,196,428
UTAH	162,870
VERMONT	88,390
VIRGINIA	610,299
WASHINGTON	75,360
WEST VIRGINIA	193,051
WISCONSIN	705,857
WYOMING	149,437
PUERTO RICO	202,930
NATION	$31,214,000

APPENDIX A

METHODOLOGY

State Performance Reports for ECIA Chapter 1 Local Education Agency and State Agency Neglected or Delinquent programs funded in school year 1986-87 were submitted to the U.S. Department of Education (ED) in the winter and early spring of 1988. These reports consisted of participation data and achievement data. Upon receipt, personnel at ED entered the participation data into Lotus 1-2-3 files and performed preliminary internal consistency checks on the data. These checks consisted of verifying that the totals for gender, year of birth, grade, and racial/ethnic group equalled the sum of their parts. In addition, comparisons were made between the 1986-87 data and the 1985-86 data. When discrepancies were found, the reporting offices were contacted for additional information and initial updates were made to the files.

Decision Resources Corporation (DRC) was contracted by the Office of Planning, Budget and Evaluation (OPBE) to review, correct, and summarize the State Performance Reports. DRC received the performance data, which were already in Lotus 1-2-3 files, and the achievement data, which had not been computerized, from ED.

The achievement data were entered into Lotus 1-2-3 files by DRC. This involved creating files for each testing cycle (annual and fall-spring) for students tested in reading and mathematics. The annual cycle consisted of both fall-fall and spring-spring testing, and in some cases combined the two into one overall annual achievement figure.

After all of the participation and achievement data were entered, data checks were conducted. The purpose of the data checks was to flag potential problems, not to claim that the information was necessarily in error. In the case of the participation data, particular emphasis was placed on changes from 1985-86 to 1986-87 that appeared to be very high, taking into account both the absolute numbers and the percents involved. No specific percentage was targeted, but any shifts that might indicate a new trend in services was noted. These changes were highlighted on state-by-state listings of the reported data. Another area receiving particular attention was the nonpublic participation counts. Because any program shifts resulting from the Aguilar v. Felton decision may have been in place by the 1986-87 school year, close attention was paid to increases and decreases in nonpublic participation. Large changes were highlighted on the state-by-state listings.

For the achievement data, any 1986-87 gain in a state that differed by more than two standard deviations from the 1985-86 national overall gain for each grade and test cycle was highlighted. For example, the 1985-86 national NCE gain score for grade 2 reading on an annual test cycle was 1.1. State NCE gain scores for grade 2 reading on an annual cycle in 1986-87 that were above 7.1 or below -4.9 were more than two standard deviations from the national overall gain score from the previous year, and would have been highlighted by the edit check process. An additional check on the achievement data was to compare the total number of students tested, combining both cycles, to the total number of students receiving services.

The highlighted state-by-state listings were then sent to the state Chapter 1 coordinators with a letter explaining the edit check process. One week later DRC began contacting the Chapter 1 coordinators by telephone to verify that highlighted items were correct or to receive explanations for reported year-to-year changes. In addition, DRC personnel attempted to discover if any new programs had been put in place to explain changes in the nonpublic participation counts.

In several instances, states provided revisions to their 1985-86 data and their 1986-87 data. In most cases, the information was correct, and explanations were provided for the highlighted items.[31] Additional revisions were made by DRC to distribute participants with unknown demographic characteristics.[32]

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[31]As discussed previously, the public school participation and staffing figures for California were adjusted for school years 1979-80 through 1985-86. Because of these adjustments and to the extent that other states revised their figures, the numbers found in this report do not correspond with those found in previous documents displaying State Performance Report information.

[32]Some states reported counts of participants with unknown information in the demographic counts by gender, year of birth, grade, or race/ethnicity. The unknowns were distributed in the same proportions as those with known demographic characteristics only when unknowns were specifically enumerated. In addition, when the Local Neglected or Delinquent demographic counts were unknown, those participants were also distributed in the same proportions as those with known demographic characteristics.

At the conclusion of this process, DRC entered the revisions into the Chapter 1 data bases, and produced two documents for ED. These documents were a State Feedback Report for each state education agency, and this summary report entitled A Summary of State Chapter 1 Participation and Achievement Information for 1986-87.

APPENDIX B

CHAPTER 1 PARTICIPANTS BY GRADE

This appendix presents national tables of Chapter 1 participants by grade. The tables include participation counts for 1985-86, 1986-87, and the percent change in number for each grade. Tables are included for public participants, nonpublic participants and total participants.

Table B.1

Chapter 1 Public Participants by Grade --
1985-86 and 1986-87

Grade	1985-86 Number	1985-86 Percent[a/]	1986-87 Number	1986-87 Percent[a/]	Percent Change in Number
Pre-Kindergarten	61,302	1	57,223	1	-7
Kindergarten	305,389	7	290,864	6	-5
1	619,101	13	628,123	14	1
2	592,510	13	612,045	13	3
3	563,922	12	582,712	13	3
4	537,517	12	539,235	12	*
5	495,235	11	484,753	11	-2
6	411,239	9	403,261	9	-2
7	319,099	7	311,398	7	-2
8	273,391	6	273,480	6	*
9	206,817	4	190,951	4	-8
10	115,256	2	116,648	3	1
11	68,138	1	62,201	1	-9
12	40,681	1	35,830	1	-12
Ungraded[b/]	2,351	*	6,037	*	157
Total	4,611,948	100	4,594,761	100	*

* Less than 1 percent.

a/ Percents may not add to 100 due to rounding.

b/ Three states (Colorado, Michigan, and Nebraska) reported public ungraded participants in 1985-86, and six states (Colorado, Connecticut, Michigan, Mississippi, Rhode Island, and Vermont) in 1986-87.

Table B.2

Chapter 1 Nonpublic Participants by Grade --
1985-86 and 1986-87

Grade	1985-86[a] Number	1985-86[a] Percent[b]	1986-87 Number	1986-87 Percent[b]	Percent Change in Number
Pre-Kindergarten	557	*	588	*	6
Kindergarten	5,532	4	4,000	3	-28
1	15,962	12	15,321	11	-4
2	20,292	16	19,571	14	-4
3	19,306	15	19,623	14	2
4	17,219	13	17,120	12	-1
5	14,780	12	14,771	11	*
6	12,429	10	12,603	9	1
7	8,558	7	9,077	7	6
8	6,424	5	7,655	6	19
9	3,337	3	5,061	4	52
10	1,750	1	3,069	2	75
11	1,033	1	1,661	1	61
12	579	*	851	1	47
Ungraded[c]	164	*	238	*	45
Total	127,922	100	138,225[d]	100[e]	8

* Less than 1 percent.

a/ The 1985-86 State Performance Reports are the first ones to provide information following the Aguilar v. Felton decision.

b/ Percents may not add to 100 due to rounding.

c/ One state (Wisconsin) reported nonpublic ungraded participants in 1985-86, and four states (Connecticut, Michigan, Mississippi, and Wisconsin) in 1986-87.

d/ The 1986-87 total nonpublic participation count includes 7,016 participants in schools with religious affiliation in Puerto Rico which are not included in the counts by grade.

e/ The 1986-87 percents by grade span do not add to 100 because of 7,016 nonpublic participants in Puerto Rico who are not included in the counts by grade.

Table B.3

Chapter 1 Total Participants by Grade --
1985-86 and 1986-87

Grade	1985-86 Number	1985-86 Percent[a/]	1986-87 Number	1986-87 Percent[a/]	Percent Change in Number
Pre-Kindergarten	61,859	1	57,811	1	-7
Kindergarten	310,921	7	294,864	6	-5
1	635,063	13	643,444	14	1
2	612,802	13	631,616	13	3
3	583,228	12	602,335	13	3
4	554,736	12	556,355	12	*
5	510,015	11	499,524	11	-2
6	423,668	9	415,864	9	-2
7	327,657	7	320,475	7	-2
8	279,815	6	281,135	6	*
9	210,154	4	196,012	4	-7
10	117,006	2	119,717	3	2
11	69,171	1	63,862	1	-8
12	41,260	1	36,681	1	-11
Ungraded[b/]	2,515	*	6,275	*	150
Total	4,739,870	100	4,732,986[c/]	100	*

* Less than 1 percent.

a/ Percents may not add to 100 due to rounding.

b/ Four states (Colorado, Michigan, Nebraska, and Wisconsin) reported ungraded participants in 1985-86, and seven states (Colorado, Connecticut, Michigan, Mississippi, Rhode Island, Vermont, and Wisconsin) in 1986-87.

c/ The 1986-87 total participation count includes 7,016 nonpublic participants in schools with religious affiliation in Puerto Rico who are not included in the counts by grade.

APPENDIX C

SELECTED PARTICIPATION INFORMATION BY STATE FOR 1979-80 TO 1986-87

This appendix presents state-by-state tables of selected participation information for 1979-80 to 1986-87. The tables are provided in the following order:

- Table C.1 -- the number and percent of public and nonpublic participants, as well as the number of total participants;
- Table C.2 -- the number and percent of public and nonpublic participants who received reading and mathematics;
- Table C.3 -- the number and percent of total FTE staff who were teachers and teacher aides in 1986-87; and
- Table C.4 -- the number and percent of total FTE staff who were administrators, teachers, or teacher aides.

Table C.1

Number and Percent of Public and Nonpublic School Participants, by State -- 1979-80 to 1986-87

		TOTAL PUBLIC PARTICIPANTS	%	TOTAL NONPUBLIC PARTICIPANTS	%	TOTAL PARTICIPANTS
Nation	1979-80	4,973,708	96	189,114	4	5,162,822
	1980-81	4,862,308	96	213,499	4	5,075,807
	1981-82	4,434,447	96	184,084	4	4,618,531
	1982-83	4,270,424	96	177,210	4	4,447,634
	1983-84	4,381,975	96	190,660	4	4,572,635
	1984-85	4,528,177	96	184,532	4	4,712,709
	1985-86	4,611,948	97	127,922	3	4,739,870
	1986-87	4,594,761	97	138,225	3	4,732,986
Alabama	1979-80	129,628	99	1,221	1	130,849
	1980-81	130,523	99	1,103	1	131,626
	1981-82	121,092	99	1,039	1	122,131
	1982-83	109,958	99	985	1	110,943
	1983-84	103,399	99	825	1	104,224
	1984-85	115,107	99	780	1	115,887
	1985-86	117,556	100	99	0	117,655
	1986-87	114,653	100	125	0	114,778
Alaska	1979-80	5,395	98	87	2	5,482
	1980-81	4,585	98	103	2	4,688
	1981-82	4,689	98	86	2	4,775
	1982-83	4,471	98	93	2	4,564
	1983-84	4,299	98	91	2	4,390
	1984-85	4,103	97	114	3	4,217
	1985-86	4,212	98	89	2	4,301
	1986-87	4,701	99	39	1	4,740
Arizona	1979-80	65,661	98	1,536	2	67,197
	1980-81	69,672	98	1,344	2	71,016
	1981-82	41,532	95	2,049	5	43,581
	1982-83	40,356	98	651	2	41,007
	1983-84	42,147	99	630	1	42,777
	1984-85	44,415	98	1,038	2	45,453
	1985-86	62,283	99	543	1	62,826
	1986-87	49,905	98	1,200	2	51,105
Arkansas	1979-80	83,601	99	970	1	84,571
	1980-81	81,188	99	1,159	1	82,347
	1981-82	70,893	99	542	1	71,435
	1982-83	66,605	99	542	1	67,147
	1983-84	66,549	99	506	1	67,055
	1984-85	66,286	99	573	1	66,859
	1985-86	65,653	100	75	0	65,728
	1986-87	62,108	99	352	1	62,460
California	1979-80	572,255	98	14,239	2	586,494
	1980-81	521,627	98	11,048	2	532,675
	1981-82	517,900	97	14,077	3	531,977
	1982-83	569,489	97	20,398	3	589,887
	1983-84	605,399	97	20,502	3	625,901
	1984-85	636,837	97	20,606	3	657,443
	1985-86	647,107	98	11,844	2	658,951
	1986-87	765,795	98	16,126	2	781,921
Colorado	1979-80	38,952	97	1,032	3	39,984
	1980-81	37,613	97	1,060	3	38,673
	1981-82	33,563	95	1,868	5	35,431
	1982-83	32,928	98	799	2	33,727
	1983-84	33,432	97	981	3	34,413
	1984-85	37,512	98	662	2	38,174
	1985-86	38,742	99	354	1	39,096
	1986-87	35,750	99	338	1	36,088
Connecticut	1979-80	55,630	92	4,873	8	60,503
	1980-81	57,270	93	4,043	7	61,313
	1981-82	45,368	94	2,848	6	48,216
	1982-83	30,752	94	1,968	6	32,720
	1983-84	48,399	95	2,560	5	50,959
	1984-85	52,511	94	3,135	6	55,646
	1985-86	51,593	96	2,297	4	53,890
	1986-87	51,048	94	3,426	6	54,474
Delaware	1979-80	11,105	91	1,062	9	12,167
	1980-81	9,921	92	921	8	10,842
	1981-82	8,148	92	690	8	8,838
	1982-83	8,156	94	508	6	8,664
	1983-84	8,225	94	570	6	8,795
	1984-85	9,880	94	588	6	10,468
	1985-86	9,143	95	524	5	9,667
	1986-87	10,238	95	507	5	10,745

Table C.1 (cont'd)

		TOTAL PUBLIC PARTICIPANTS	%	TOTAL NONPUBLIC PARTICIPANTS	%	TOTAL PARTICIPANTS
D. C.	1979-80	15,905	94	981	6	16,886
	1980-81	17,088	95	944	5	18,032
	1981-82	13,765	94	875	6	14,640
	1982-83	14,780	95	809	5	15,589
	1983-84	12,502	96	573	4	13,075
	1984-85	15,243	96	565	4	15,808
	1985-86	15,776	97	437	3	16,213
	1986-87	15,541	97	440	3	15,981
Florida	1979-80	153,493	97	4,390	3	157,883
	1980-81	147,354	96	5,865	4	153,219
	1981-82	126,707	97	3,724	3	130,431
	1982-83	139,718	98	3,573	2	143,291
	1983-84	145,459	98	3,178	2	148,637
	1984-85	153,881	98	2,995	2	156,876
	1985-86	149,889	99	1,710	1	151,599
	1986-87	132,741	98	2,714	2	135,455
Georgia	1979-80	158,530	99	1,116	1	159,646
	1980-81	157,419	99	1,716	1	159,135
	1981-82	170,538	99	1,098	1	171,636
	1982-83	113,673	100	300	0	113,973
	1983-84	132,201	99	1,404	1	133,605
	1984-85	169,311	99	1,083	1	170,394
	1985-86	122,250	100	354	0	122,604
	1986-87	135,467	100	357	0	135,824
Hawaii	1979-80	15,301	98	326	2	15,627
	1980-81	15,336	98	336	2	15,672
	1981-82	11,195	98	287	2	11,482
	1982-83	10,044	98	234	2	10,278
	1983-84	9,878	98	214	2	10,092
	1984-85	12,080	98	198	2	12,278
	1985-86	14,110	100	48	0	14,158
	1986-87	14,212	100	68	0	14,280
Idaho	1979-80	16,010	99	187	1	16,197
	1980-81	15,699	99	227	1	15,926
	1981-82	14,286	99	177	1	14,463
	1982-83	13,869	99	129	1	13,998
	1983-84	15,637	99	208	1	15,845
	1984-85	15,604	99	163	1	15,767
	1985-86	16,747	100	82	0	16,829
	1986-87	17,739	99	118	1	17,857
Illinois	1979-80	158,203	95	8,036	5	166,239
	1980-81	157,217	95	8,001	5	165,218
	1981-82	136,230	95	6,538	5	142,768
	1982-83	128,201	95	6,850	5	135,051
	1983-84	139,340	95	7,031	5	146,371
	1984-85	142,064	95	6,809	5	148,873
	1985-86	156,167	96	6,448	4	162,615
	1986-87	153,267	96	6,195	4	159,462
Indiana	1979-80	100,769	96	3,655	4	104,424
	1980-81	88,787	97	3,093	3	91,880
	1981-82	85,028	96	3,391	4	88,419
	1982-83	89,038	96	3,889	4	92,927
	1983-84	92,608	97	3,268	3	95,876
	1984-85	96,726	96	3,659	4	100,385
	1985-86	105,491	99	1,502	1	106,993
	1986-87	100,058	98	2,144	2	102,202
Iowa	1979-80	42,688	92	3,919	8	46,607
	1980-81	40,043	92	3,675	8	43,718
	1981-82	36,808	92	3,319	8	40,127
	1982-83	36,956	92	3,269	8	40,225
	1983-84	27,288	93	2,153	7	29,441
	1984-85	23,984	91	2,303	9	26,287
	1985-86	23,516	92	1,944	8	25,460
	1986-87	34,253	93	2,384	7	36,637
Kansas	1979-80	38,741	95	2,143	5	40,884
	1980-81	40,309	95	1,935	5	42,244
	1981-82	38,439	95	1,848	5	40,287
	1982-83	36,936	96	1,557	4	38,493
	1983-84	33,885	96	1,320	4	35,205
	1984-85	37,290	97	1,303	3	38,593
	1985-86	34,920	98	586	2	35,506
	1986-87	33,444	98	762	2	34,206
Kentucky	1979-80	111,914	97	2,967	3	114,881
	1980-81	110,650	97	3,156	3	113,806
	1981-82	104,355	97	2,848	3	107,203
	1982-83	100,129	98	2,496	2	102,625
	1983-84	95,589	97	2,625	3	98,214
	1984-85	101,204	97	3,036	3	104,240
	1985-86	99,166	98	2,326	2	101,492
	1986-87	90,153	98	2,014	2	92,167

Table C.1 (cont'd)

		TOTAL PUBLIC PARTICIPANTS	%	TOTAL NONPUBLIC PARTICIPANTS	%	TOTAL PARTICIPANTS
Louisiana	1979-80	155,781	96	7,327	4	163,108
	1980-81	134,285	95	7,577	5	141,862
	1981-82	103,405	95	5,676	5	109,081
	1982-83	95,701	95	5,342	5	101,043
	1983-84	93,646	95	5,263	5	98,909
	1984-85	103,556	95	6,016	5	109,572
	1985-86	106,559	98	1,706	2	108,265
	1986-87	103,755	97	2,709	3	106,464
Maine	1979-80	25,642	97	838	3	26,480
	1980-81	22,153	96	833	4	22,986
	1981-82	21,936	97	638	3	22,574
	1982-83	21,829	97	745	3	22,574
	1983-84	21,494	96	783	4	22,277
	1984-85	23,941	97	666	3	24,607
	1985-86	21,561	99	192	1	21,753
	1986-87	25,701	99	305	1	26,006
Maryland	1979-80	60,803	96	2,481	4	63,284
	1980-81	66,713	96	2,559	4	69,272
	1981-82	56,844	95	2,735	5	59,579
	1982-83	54,840	98	1,197	2	56,037
	1983-84	56,972	98	1,166	2	58,138
	1984-85	66,168	97	1,839	3	68,007
	1985-86	70,100	99	752	1	70,852
	1986-87	55,687	96	2,020	4	57,707
Massachusetts	1979-80	73,398	90	8,181	10	81,579
	1980-81	83,905	90	9,648	10	93,553
	1981-82	73,403	90	7,903	10	81,306
	1982-83	65,296	90	7,205	10	72,501
	1983-84	88,827	91	9,207	9	98,034
	1984-85	81,799	92	6,819	8	88,618
	1985-86	81,207	96	3,615	4	84,822
	1986-87	74,963	94	4,392	6	79,355
Michigan	1979-80	164,631	97	4,818	3	169,449
	1980-81	153,930	97	5,115	3	159,045
	1981-82	138,603	97	4,668	3	143,271
	1982-83	126,037	98	2,871	2	128,908
	1983-84	134,711	97	4,179	3	138,890
	1984-85	137,584	97	3,813	3	141,397
	1985-86	152,556	98	3,187	2	155,743
	1986-87	142,689	98	2,812	2	145,501
Minnesota	1979-80	65,308	90	6,919	10	72,227
	1980-81	56,713	90	5,987	10	62,700
	1981-82	52,048	90	5,670	10	57,718
	1982-83	50,147	90	5,388	10	55,535
	1983-84	49,091	90	5,294	10	54,385
	1984-85	54,067	91	5,302	9	59,369
	1985-86	53,355	95	3,023	5	56,378
	1986-87	56,330	95	2,843	5	59,173
Mississippi	1979-80	129,902	99	1,909	1	131,811
	1980-81	129,604	99	1,804	1	131,408
	1981-82	117,934	99	1,732	1	119,666
	1982-83	112,612	98	1,773	2	114,385
	1983-84	98,231	98	1,840	2	100,071
	1984-85	99,270	98	1,996	2	101,266
	1985-86	92,343	99	617	1	92,960
	1986-87	92,996	98	1,687	2	94,683
Missouri	1979-80	87,216	100	192	0	87,408
	1980-81	95,286	100	201	0	95,487
	1981-82	86,334	100	208	0	86,542
	1982-83	85,689	100	260	0	85,949
	1983-84	83,299	95	3,965	5	87,264
	1984-85	77,351	95	4,021	5	81,372
	1985-86	71,023	96	3,004	4	74,027
	1986-87	71,496	96	2,833	4	74,329
Montana	1979-80	12,557	97	434	3	12,991
	1980-81	13,504	97	450	3	13,954
	1981-82	11,765	96	459	4	12,224
	1982-83	11,135	96	442	4	11,577
	1983-84	11,338	96	426	4	11,764
	1984-85	12,345	98	268	2	12,613
	1985-86	13,103	98	239	2	13,342
	1986-87	13,665	99	191	1	13,856
Nebraska	1979-80	26,201	90	2,905	10	29,106
	1980-81	23,748	90	2,555	10	26,303
	1981-82	26,783	90	3,064	10	29,847
	1982-83	19,366	90	2,046	10	21,412
	1983-84	19,958	90	2,218	10	22,176
	1984-85	18,579	92	1,552	8	20,131
	1985-86	24,060	96	911	4	24,971
	1986-87	25,231	95	1,422	5	26,653

Table C.1 (cont'd)

		TOTAL PUBLIC PARTICIPANTS	%	TOTAL NONPUBLIC PARTICIPANTS	%	TOTAL PARTICIPANTS
Nevada	1979-80	5,891	99	87	1	5,978
	1980-81	5,490	98	98	2	5,588
	1981-82	6,692	98	118	2	6,810
	1982-83	7,020	99	61	1	7,081
	1983-84	7,827	99	91	1	7,918
	1984-85	8,479	99	113	1	8,592
	1985-86	9,353	100	39	0	9,392
	1986-87	8,000	98	143	2	8,143
New Hampshire	1979-80	7,855	94	479	6	8,334
	1980-81	9,046	95	520	5	9,566
	1981-82	6,687	94	399	6	7,086
	1982-83	7,481	95	395	5	7,876
	1983-84	8,544	95	428	5	8,972
	1984-85	9,687	95	547	5	10,234
	1985-86	11,429	97	411	3	11,840
	1986-87	9,759	97	301	3	10,060
New Jersey	1979-80	108,925	90	12,454	10	121,379
	1980-81	115,545	90	12,429	10	127,974
	1981-82	122,785	92	10,981	8	133,766
	1982-83	138,088	93	10,956	7	149,044
	1983-84	132,201	93	9,809	7	142,010
	1984-85	148,538	93	11,962	7	160,500
	1985-86	158,842	96	7,364	4	166,206
	1986-87	176,489	96	6,819	4	183,308
New Mexico	1979-80	31,012	96	1,373	4	32,385
	1980-81	32,343	96	1,302	4	33,645
	1981-82	28,748	96	1,314	4	30,062
	1982-83	26,414	96	1,241	4	27,655
	1983-84	27,074	96	1,122	4	28,196
	1984-85	28,114	96	1,224	4	29,338
	1985-86	30,838	97	877	3	31,715
	1986-87	28,036	96	1,070	4	29,106
New York	1979-80	320,885	92	26,816	8	347,701
	1980-81	329,780	86	55,580	14	385,360
	1981-82	328,030	89	38,767	11	366,797
	1982-83	261,062	87	37,590	13	298,652
	1983-84	301,750	88	41,931	12	343,681
	1984-85	335,153	89	39,663	11	374,816
	1985-86	311,118	91	31,520	9	342,638
	1986-87	301,175	94	20,319	6	321,494
North Caroline	1979-80	148,821	100	726	0	149,547
	1980-81	144,649	100	683	0	145,332
	1981-82	135,456	100	572	0	136,028
	1982-83	133,372	100	517	0	133,889
	1983-84	131,588	100	492	0	132,080
	1984-85	129,041	100	454	0	129,495
	1985-86	124,908	100	447	0	125,355
	1986-87	113,511	100	372	0	113,883
North Dakota	1979-80	9,703	95	536	5	10,239
	1980-81	9,522	95	463	5	9,985
	1981-82	7,018	95	347	5	7,365
	1982-83	9,962	95	518	5	10,480
	1983-84	8,452	95	484	5	8,936
	1984-85	8,640	95	491	5	9,131
	1985-86	8,804	97	308	3	9,112
	1986-87	8,816	97	315	3	9,131
Ohio	1979-80	138,214	96	6,040	4	144,254
	1980-81	135,895	95	7,861	5	143,756
	1981-82	119,042	94	7,332	6	126,374
	1982-83	114,124	95	5,516	5	119,640
	1983-84	126,552	96	5,830	4	132,382
	1984-85	133,646	96	5,925	4	139,571
	1985-86	130,924	96	5,737	4	136,661
	1986-87	122,692	94	7,997	6	130,689
Oklahoma	1979-80	79,175	100	273	0	79,448
	1980-81	80,231	100	343	0	80,574
	1981-82	68,834	100	260	0	69,094
	1982-83	61,387	99	312	1	61,699
	1983-84	59,896	100	228	0	60,124
	1984-85	62,604	99	358	1	62,962
	1985-86	61,868	100	213	0	62,081
	1986-87	58,371	100	204	0	58,575
Oregon	1979-80	46,476	98	850	2	47,326
	1980-81	30,545	98	545	2	31,090
	1981-82	29,212	98	606	2	29,818
	1982-83	35,497	98	840	2	36,337
	1983-84	34,616	98	580	2	35,196
	1984-85	36,968	98	620	2	37,588
	1985-86	42,148	99	538	1	42,686
	1986-87	42,096	99	513	1	42,609

Table C.1 (cont'd)

		TOTAL PUBLIC PARTICIPANTS	%	TOTAL NONPUBLIC PARTICIPANTS	%	TOTAL PARTICIPANTS
Pennsylvania	1979-80	242,703	90	25,947	10	268,650
	1980-81	240,451	91	24,959	9	265,410
	1981-82	218,418	91	22,399	9	240,817
	1982-83	204,818	90	22,236	10	227,054
	1983-84	204,544	90	21,656	10	226,200
	1984-85	206,769	91	21,564	9	228,333
	1985-86	199,845	92	17,749	8	217,594
	1986-87	198,155	94	13,697	6	211,852
Rhode Island	1979-80	17,824	95	921	5	18,745
	1980-81	16,073	93	1,138	7	17,211
	1981-82	12,076	93	906	7	12,982
	1982-83	11,196	93	849	7	12,045
	1983-84	11,939	93	928	7	12,867
	1984-85	12,720	95	723	5	13,443
	1985-86	12,285	96	520	4	12,805
	1986-87	13,212	97	443	3	13,655
South Carolina	1979-80	97,363	99	597	1	97,960
	1980-81	90,471	99	637	1	91,108
	1981-82	71,439	99	571	1	72,010
	1982-83	61,528	99	533	1	62,061
	1983-84	57,581	99	444	1	58,025
	1984-85	51,527	99	295	1	51,822
	1985-86	52,588	100	97	0	52,685
	1986-87	51,285	100	89	0	51,374
South Dakota	1979-80	14,373	94	899	6	15,272
	1980-81	14,030	95	756	5	14,786
	1981-82	13,016	94	800	6	13,816
	1982-83	12,070	95	670	5	12,740
	1983-84	11,921	94	819	6	12,740
	1984-85	12,077	94	800	6	12,877
	1985-86	12,350	95	652	5	13,002
	1986-87	12,312	96	494	4	12,806
Tennessee	1979-80	150,306	99	933	1	151,239
	1980-81	101,295	99	726	1	102,021
	1981-82	88,794	100	48	0	88,842
	1982-83	137,223	99	822	1	138,045
	1983-84	91,377	99	600	1	91,977
	1984-85	99,144	100	460	0	99,604
	1985-86	103,135	100	193	0	103,328
	1986-87	102,121	100	390	0	102,511
Texas	1979-80	415,815	99	5,185	1	421,000
	1980-81	410,372	99	5,613	1	415,985
	1981-82	345,214	98	5,636	2	350,850
	1982-83	309,292	98	6,549	2	315,841
	1983-84	301,451	98	4,779	2	306,230
	1984-85	292,726	98	5,022	2	297,748
	1985-86	362,695	99	2,883	1	365,578
	1986-87	345,147	97	9,472	3	354,619
Utah	1979-80	21,511	99	178	1	21,689
	1980-81	18,903	100	50	0	18,953
	1981-82	17,862	99	112	1	17,974
	1982-83	16,770	100	69	0	16,839
	1983-84	19,053	100	66	0	19,119
	1984-85	22,759	100	94	0	22,853
	1985-86	24,378	100	116	0	24,494
	1986-87	21,971	100	91	0	22,062
Vermont	1979-80	10,462	96	421	4	10,883
	1980-81	10,307	97	358	3	10,665
	1981-82	8,376	96	388	4	8,764
	1982-83	7,574	96	309	4	7,883
	1983-84	8,387	96	342	4	8,729
	1984-85	9,191	97	328	3	9,519
	1985-86	9,610	98	231	2	9,841
	1986-87	8,975	97	234	3	9,209
Virginia	1979-80	111,772	100	9	0	111,781
	1980-81	104,111	100	46	0	104,157
	1981-82	88,805	100	16	0	88,821
	1982-83	83,389	100	0	0	83,389
	1983-84	82,547	99	552	1	83,099
	1984-85	82,788	99	600	1	83,388
	1985-86	76,598	99	705	1	77,303
	1986-87	73,020	99	893	1	73,913
Washington	1979-80	59,767	98	1,291	2	61,058
	1980-81	60,292	98	1,026	2	61,318
	1981-82	55,229	98	981	2	56,210
	1982-83	58,312	98	934	2	59,246
	1983-84	59,562	98	990	2	60,552
	1984-85	59,734	98	1,088	2	60,822
	1985-86	64,917	99	350	1	65,267
	1986-87	61,794	99	649	1	62,443

Table C.1 (cont'd)

		TOTAL PUBLIC PARTICIPANTS	%	TOTAL NONPUBLIC PARTICIPANTS	%	TOTAL PARTICIPANTS
West Virginia	1979-80	43,370	99	412	1	43,782
	1980-81	41,141	99	367	1	41,508
	1981-82	40,564	99	320	1	40,884
	1982-83	31,912	99	235	1	32,147
	1983-84	31,305	99	213	1	31,518
	1984-85	33,100	99	284	1	33,384
	1985-86	33,467	100	147	0	33,614
	1986-87	31,528	99	202	1	31,730
Wisconsin	1979-80	67,439	94	4,226	6	71,665
	1980-81	67,107	94	4,055	6	71,162
	1981-82	60,693	94	3,704	6	64,397
	1982-83	52,926	92	4,382	8	57,308
	1983-84	60,257	94	4,018	6	64,275
	1984-85	60,238	95	3,090	5	63,328
	1985-86	65,950	95	3,458	5	69,408
	1986-87	63,633	96	2,926	4	66,559
Wyoming	1979-80	4,642	98	93	2	4,735
	1980-81	5,398	98	86	2	5,484
	1981-82	4,642	98	79	2	4,721
	1982-83	3,761	98	80	2	3,841
	1983-84	4,252	98	84	2	4,336
	1984-85	4,325	99	48	1	4,373
	1985-86	4,047	98	76	2	4,123
	1986-87	3,984	99	37	1	4,021
Guam	1979-80	1,188	94	77	6	1,265
	1980-81	1,090	91	112	9	1,202
	1981-82	0	0	0	0	0
	1982-83	0	0	0	0	0
	1983-84	0	0	0	0	0
	1984-85	0	0	0	0	0
	1985-86	0	0	0	0	0
	1986-87	0	0	0	0	0
Puerto Rico	1979-80	204,714	96	7,937	4	212,651
	1980-81	256,785	98	5,250	2	262,035
	1981-82	242,164	98	4,931	2	247,095
	1982-83	272,754	98	5,277	2	278,031
	1983-84	269,229	97	7,488	3	276,717
	1984-85	253,354	97	6,877	3	260,231
	1985-86	264,166	98	4,783	2	268,949
	1986-87	240,005	96	10,013	4	250,018
Trust Terr PI	1979-80	12,257	92	1,127	8	13,384
	1980-81	16,603	89	2,038	11	18,641
	1981-82	21,515	90	2,440	10	23,955
	1982-83	0	0	0	0	0
	1983-84	34,899	90	3,706	10	38,605
	1984-85	0	0	0	0	0
	1985-86	0	0	0	0	0
	1986-87	0	0	0	0	0
Virgin Islands	1979-80	1,711	78	483	22	2,194
	1980-81	0	0	0	0	0
	1981-82	0	0	0	0	0
	1982-83	0	0	0	0	0
	1983-84	0	0	0	0	0
	1984-85	0	0	0	0	0
	1985-86	0	0	0	0	0
	1986-87	0	0	0	0	0
BIA	1979-80	24,314	100	0	0	24,314
	1980-81	32,691	100	0	0	32,691
	1981-82	23,545	100	0	0	23,545
	1982-83	23,781	100	0	0	23,781
	1983-84	21,368	100	0	0	21,368
	1984-85	18,157	100	0	0	18,157
	1985-86	15,497	100	0	0	15,497
	1986-87	15,088	100	0	0	15,088

Table C.2

Number and Percent of Public and Nonpublic Participants Who Received Reading and Mathematics, by State -- 1979-80 to 1986-87

		TOTAL PUBLIC PARTICIPANTS	PUBLIC READING	%	PUBLIC MATHEMATICS	%	TOTAL NONPUBLIC PARTICIPANTS	NONPUBLIC READING	%	NONPUBLIC MATHEMATICS	%
Nation	1979-80	4,973,700	3,777,691	76	2,165,148	44	189,116	148,972	79	68,875	36
	1980-81	4,862,308	3,439,338	71	1,928,810	40	213,499	162,218	76	75,778	35
	1981-82	4,434,447	3,105,872	70	1,781,757	40	184,084	154,491	84	73,034	40
	1982-83	4,270,424	3,120,702	73	1,843,275	43	177,210	137,191	77	66,287	37
	1983-84	4,301,975	3,222,066	74	1,893,630	43	190,660	141,292	74	79,253	42
	1984-85	4,528,177	3,268,470	72	1,970,617	44	184,532	137,905	75	76,274	41
	1985-86	4,611,948	3,302,410	73	2,057,781	45	127,922	87,233	68	43,450	34
	1986-87	4,596,761	3,362,060	73	2,043,110	44	138,225	92,634	67	47,899	35
Alabama	1979-80	129,628	106,840	82	41,630	32	1,221	1,058	87	305	25
	1980-81	130,523	110,021	84	45,448	35	1,103	1,042	94	225	11
	1981-82	121,092	102,231	84	37,142	31	1,039	1,028	99	131	13
	1982-83	109,958	91,316	83	31,439	29	985	938	95	76	8
	1983-84	103,399	83,862	81	32,794	32	825	730	88	89	11
	1984-85	115,107	96,845	84	45,391	39	780	695	89	101	13
	1985-86	117,556	97,184	83	51,584	44	99	96	97	21	21
	1986-87	114,653	95,726	83	50,717	44	125	121	97	58	46
Alaska	1979-80	5,395	3,598	67	2,692	50	87	88	101	18	21
	1980-81	4,585	3,301	72	1,884	41	103	70	68	0	0
	1981-82	4,689	3,575	76	1,772	38	86	66	77	8	9
	1982-83	4,471	3,216	72	1,510	34	93	59	63	24	26
	1983-84	4,299	3,055	71	1,297	30	91	0	0	0	0
	1984-85	4,103	3,005	73	1,056	26	114	41	36	1	1
	1985-86	4,212	3,012	72	1,267	30	89	49	55	2	2
	1986-87	4,701	3,357	71	1,279	27	39	39	100	0	0
Arizona	1979-80	65,661	54,876	84	13,680	21	1,536	1,644	107	108	7
	1980-81	69,672	58,272	84	18,330	26	1,344	1,305	97	144	11
	1981-82	41,532	30,873	74	13,224	32	2,049	969	47	438	21
	1982-83	40,356	31,416	78	3,396	8	651	3,519	541	3	0
	1983-84	42,147	31,290	74	12,187	27	630	537	85	18	3
	1984-85	44,415	34,674	78	13,800	31	1,038	627	60	120	12
	1985-86	62,283	47,427	76	17,520	28	543	465	86	195	36
	1986-87	49,905	43,935	88	15,603	31	1,200	1,161	97	6	1
Arkansas	1979-80	83,601	46,756	56	17,013	20	970	658	68	0	0
	1980-81	81,188	42,380	52	15,993	20	1,159	681	59	22	2
	1981-82	70,893	37,413	53	14,029	20	542	542	100	75	14
	1982-83	66,605	49,850	75	24,396	37	542	542	100	70	13
	1983-84	66,549	33,735	51	12,249	18	506	319	63	118	23
	1984-85	66,286	31,904	48	12,000	18	573	342	60	60	10
	1985-86	65,653	32,984	50	11,310	17	75	62	83	6	8
	1986-87	62,108	28,952	47	9,682	16	352	183	52	6	2
California	1979-80	572,255	553,266	97	534,861	93	14,219	12,270	79	9,968	70
	1980-81	521,627	437,767	84	419,714	80	11,048	16,453	149	13,948	126
	1981-82	517,900	390,115	75	375,655	73	14,077	16,141	115	13,834	98
	1982-83	569,489	483,992	85	456,079	80	20,398	14,977	73	15,295	75
	1983-84	605,339	506,517	84	468,155	77	20,502	15,675	76	14,114	69
	1984-85	636,837	555,493	87	506,191	79	20,606	17,382	84	13,789	68
	1985-86	647,107	565,903	87	511,338	79	11,844	2,366	20	2,117	18
	1986-87	765,795	671,112	88	600,202	78	16,126	13,474	84	9,938	62
Colorado	1979-80	38,952	30,369	78	11,162	29	1,032	683	66	366	35
	1980-81	37,613	29,149	77	11,385	30	1,060	788	74	362	34
	1981-82	33,563	25,543	76	9,203	27	1,868	602	32	245	13
	1982-83	32,928	26,037	79	8,471	26	799	577	72	294	37
	1983-84	33,432	25,856	77	7,326	22	981	549	56	281	29
	1984-85	37,512	30,844	82	6,534	17	662	561	85	257	39
	1985-86	38,742	28,973	75	5,819	15	354	369	104	31	9
	1986-87	35,750	25,633	72	5,417	15	338	289	86	18	5

Table C.2 (cont'd)

		TOTAL PUBLIC PARTICIPANTS	PUBLIC READING	%	PUBLIC MATHEMATICS	%	TOTAL NONPUBLIC PARTICIPANTS	NONPUBLIC READING	%	NONPUBLIC MATHEMATICS	%
Connecticut	1979-80	55,630	27,597	50	17,030	31	4,873	3,949	81	2,979	61
	1980-81	57,270	24,964	44	10,291	18	4,043	1,421	35	104	3
	1981-82	45,368	10,851	24	1,427	3	2,848	1,567	55	1,110	39
	1982-83	30,752	21,934	71	17,914	58	1,968	1,968	100	0	0
	1983-84	48,399	24,195	50	20,932	43	2,560	2,560	100	2,560	100
	1984-85	52,511	31,319	60	28,728	55	3,135	2,983	95	2,803	89
	1985-86	51,593	44,005	85	42,297	82	2,297	2,292	100	2,105	92
	1986-87	51,048	25,202	49	18,746	37	3,426	1,369	40	728	21
Delaware	1979-80	11,105	10,357	93	3,783	34	1,062	573	54	432	41
	1980-81	9,921	8,159	82	3,355	34	921	697	76	483	52
	1981-82	8,148	5,417	66	4,440	54	690	621	90	214	31
	1982-83	8,156	6,665	82	2,766	34	508	478	94	136	27
	1983-84	8,225	6,837	83	2,570	31	570	484	85	173	30
	1984-85	9,880	7,406	75	2,576	26	588	500	85	167	28
	1985-86	9,143	7,127	78	2,756	30	524	393	75	231	44
	1986-87	10,238	7,983	78	3,110	30	507	458	90	49	10
D. C.	1979-80	15,905	9,543	60	6,362	40	981	590	60	391	40
	1980-81	17,088	10,953	64	6,135	36	944	603	64	341	36
	1981-82	13,765	7,980	58	5,785	42	875	550	63	325	37
	1982-83	14,780	10,373	70	4,407	30	809	653	81	136	17
	1983-84	12,502	8,600	69	6,400	51	573	400	70	173	30
	1984-85	15,243	14,148	93	11,599	76	565	346	61	219	39
	1985-86	15,776	13,972	89	11,165	71	437	322	74	176	40
	1986-87	15,541	14,061	90	11,360	73	440	391	89	199	45
Florida	1979-80	153,493	126,622	82	46,961	31	4,390	3,482	79	1,831	42
	1980-81	147,354	126,180	86	42,902	29	5,865	3,368	57	1,743	30
	1981-82	126,707	104,912	83	36,671	29	3,724	3,022	81	1,588	43
	1982-83	139,718	109,262	78	47,055	34	3,573	2,832	79	1,654	46
	1983-84	145,459	123,720	85	62,672	43	3,178	2,323	73	1,326	42
	1984-85	153,881	125,686	82	66,419	43	2,995	2,555	85	1,574	53
	1985-86	149,889	124,266	83	70,325	47	1,710	1,363	80	1,062	62
	1986-87	132,741	116,384	88	58,222	44	2,714	2,276	84	1,092	40
Georgia	1979-80	158,530	125,485	79	87,239	55	1,116	986	88	398	36
	1980-81	157,419	116,925	74	87,198	55	1,716	1,524	89	1,167	68
	1981-82	170,538	138,807	81	106,860	63	1,098	1,095	100	489	45
	1982-83	113,673	89,661	79	65,637	58	300	273	91	72	24
	1983-84	132,201	92,991	70	77,571	59	1,404	969	69	846	60
	1984-85	169,311	101,610	60	81,276	48	1,083	984	91	771	71
	1985-86	122,250	95,163	78	69,699	57	354	274	77	201	57
	1986-87	135,467	104,272	77	81,817	60	357	294	82	247	69
Hawaii	1979-80	15,301	14,544	95	757	5	326	285	87	41	13
	1980-81	15,336	14,062	92	1,274	8	336	304	90	32	10
	1981-82	11,195	11,338	101	1,014	9	287	271	94	24	8
	1982-83	10,044	9,435	94	418	4	234	192	82	42	18
	1983-84	9,878	9,398	95	480	5	214	193	90	21	10
	1984-85	12,080	10,985	91	1,095	9	198	186	94	12	6
	1985-86	14,110	11,862	84	2,248	16	48	42	88	6	13
	1986-87	14,212	11,738	83	2,474	17	68	61	90	7	10
Idaho	1979-80	16,010	12,823	80	5,133	32	187	153	82	58	31
	1980-81	15,699	12,522	80	5,329	34	227	89	39	70	31
	1981-82	14,286	11,007	77	3,875	27	177	144	81	58	33
	1982-83	13,869	11,061	80	4,163	30	129	88	68	39	30
	1983-84	15,637	11,798	75	5,247	34	208	163	78	145	70
	1984-85	15,604	11,411	73	5,806	37	163	127	78	85	52
	1985-86	16,747	11,790	70	6,879	41	82	84	102	92	112
	1986-87	17,739	12,676	71	7,510	42	118	95	81	84	71
Illinois	1979-80	158,203	133,022	84	53,050	34	8,036	7,247	90	1,134	14
	1980-81	157,217	131,496	84	53,066	34	8,001	7,165	90	1,172	15
	1981-82	136,230	114,274	84	42,857	31	6,538	6,065	93	718	11
	1982-83	128,201	101,797	79	40,597	32	6,850	6,044	88	842	12
	1983-84	139,340	106,204	76	44,968	32	7,031	6,012	86	783	11
	1984-85	142,064	115,582	81	54,560	38	6,809	6,470	95	1,395	20
	1985-86	156,167	118,041	76	68,657	44	6,448	6,099	95	1,678	26
	1986-87	153,267	117,402	77	54,633	36	6,195	5,144	83	2,659	43

Table C.2 (cont'd)

		TOTAL PUBLIC PARTICIPANTS	PUBLIC READING	%	PUBLIC MATHEMATICS	%	TOTAL NONPUBLIC PARTICIPANTS	NONPUBLIC READING	%	NONPUBLIC MATHEMATICS	%
Indiana	1979-80	100,769	90,057	90	26,006	26	3,655	3,080	84	1,231	34
	1980-81	88,787	77,145	87	19,906	22	3,093	2,579	83	1,076	35
	1981-82	85,028	70,036	82	18,059	21	3,391	2,800	83	903	27
	1982-83	89,038	75,317	85	25,339	28	3,889	2,954	76	1,605	41
	1983-84	92,608	80,439	87	28,107	30	3,268	2,907	89	1,257	38
	1984-85	96,726	83,642	86	27,933	29	3,659	3,101	85	1,144	31
	1985-86	105,491	87,770	83	33,326	32	1,502	1,306	87	439	29
	1986-87	100,058	83,250	83	31,763	32	2,144	1,772	83	734	34
Iowa	1979-80	42,688	36,529	86	8,021	19	3,919	3,527	90	573	15
	1980-81	40,043	34,048	85	8,177	20	3,675	3,339	91	513	14
	1981-82	36,808	31,650	86	7,198	20	3,319	3,002	90	539	16
	1982-83	36,956	31,347	85	15,309	41	3,269	3,243	99	1,079	33
	1983-84	27,288	22,663	84	5,506	20	2,153	1,812	84	598	28
	1984-85	23,984	23,420	98	5,700	24	2,303	2,303	100	447	19
	1985-86	23,516	22,814	97	5,415	23	1,944	1,944	100	318	16
	1986-87	34,253	27,121	79	6,630	19	2,384	2,086	88	298	13
Kansas	1979-80	38,741	28,687	74	13,383	35	2,143	1,544	72	821	38
	1980-81	40,309	28,913	72	14,549	36	1,935	1,351	70	747	39
	1981-82	38,439	28,465	74	13,733	36	1,848	1,305	71	741	40
	1982-83	36,936	25,799	70	12,484	34	1,557	882	57	503	32
	1983-84	33,885	22,902	68	11,581	34	1,320	898	68	593	45
	1984-85	37,290	23,684	64	13,419	36	1,303	762	58	554	43
	1985-86	34,920	23,162	66	12,137	35	586	435	74	187	32
	1986-87	33,444	21,825	65	11,324	34	762	470	62	290	38
Kentucky	1979-80	111,914	97,344	87	26,575	24	2,967	2,720	92	187	6
	1980-81	110,650	96,650	87	28,702	26	3,156	2,733	87	174	6
	1981-82	104,355	91,102	87	27,533	26	2,848	2,266	80	242	8
	1982-83	100,129	88,441	88	22,971	23	2,496	2,162	87	184	7
	1983-84	95,589	83,919	88	21,586	23	2,625	2,457	94	170	6
	1984-85	101,204	88,170	87	23,562	23	3,036	2,105	69	187	6
	1985-86	99,166	87,103	88	23,746	24	2,326	1,415	61	145	6
	1986-87	90,153	79,625	88	20,846	23	2,014	1,336	66	73	4
Louisiana	1979-80	155,781	100,261	64	69,609	45	7,327	4,560	62	2,406	33
	1980-81	134,285	75,187	56	48,818	36	7,577	3,438	45	2,001	26
	1981-82	103,405	81,201	79	48,775	47	5,676	5,089	90	2,389	42
	1982-83	95,701	65,050	68	37,444	39	5,342	4,536	85	1,982	37
	1983-84	93,646	74,366	79	44,613	48	5,263	4,460	85	2,560	49
	1984-85	103,556	75,624	73	43,085	42	6,016	4,848	81	2,391	40
	1985-86	106,559	82,780	78	49,246	46	1,706	3,059	179	1,285	75
	1986-87	103,755	65,592	63	38,799	37	2,709	2,284	84	1,280	47
Maine	1979-80	25,642	20,046	78	9,132	36	838	836	100	386	46
	1980-81	22,153	19,712	89	9,233	42	833	609	73	285	34
	1981-82	21,936	17,797	81	8,510	39	638	489	77	234	37
	1982-83	21,829	17,644	81	8,138	37	745	602	81	278	37
	1983-84	21,494	16,169	75	6,553	30	783	783	100	783	100
	1984-85	23,941	18,729	78	9,199	38	666	531	80	138	21
	1985-86	21,561	16,406	76	8,108	38	192	15	8	18	9
	1986-87	25,701	20,739	81	10,040	39	305	219	72	117	38
Maryland	1979-80	60,803	51,653	85	35,015	58	2,481	1,972	79	1,554	63
	1980-81	66,713	49,386	74	43,075	65	2,552	1,772	69	1,636	64
	1981-82	56,844	48,098	85	30,345	53	2,735	1,799	66	1,126	41
	1982-83	54,840	45,649	83	32,360	59	1,197	1,062	89	543	45
	1983-84	56,972	46,228	81	30,683	54	1,166	881	76	479	41
	1984-85	66,168	50,624	77	34,409	52	1,839	1,058	58	678	37
	1985-86	70,100	57,633	82	46,788	67	752	616	82	377	50
	1986-87	55,687	45,469	82	32,785	59	2,020	1,380	68	1,072	53
Massachusetts	1979-80	73,398	52,827	72	21,165	29	8,181	6,042	74	1,830	22
	1980-81	83,905	66,009	79	18,734	22	9,648	8,501	88	2,132	22
	1981-82	73,403	53,883	73	23,950	33	7,903	6,687	85	1,209	15
	1982-83	65,296	49,410	76	16,694	26	7,205	6,042	84	991	14
	1983-84	88,827	66,886	75	21,672	24	9,207	7,447	81	1,400	15
	1984-85	81,799	48,117	59	25,074	31	6,819	5,032	74	1,322	19
	1985-86	81,207	44,888	55	22,699	28	3,615	2,051	57	639	18
	1986-87	74,963	42,022	56	23,021	31	4,392	3,048	69	721	16

Table C.2 (cont'd)

		TOTAL PUBLIC PARTICIPANTS	PUBLIC READING	%	PUBLIC MATHEMATICS	%	TOTAL NONPUBLIC PARTICIPANTS	NONPUBLIC READING	%	NONPUBLIC MATHEMATICS	%
Michigan	1979-80	164,631	147,819	90	92,943	56	4,818	4,026	84	1,989	41
	1980-81	153,930	136,062	88	75,264	49	5,115	4,362	85	1,524	30
	1981-82	138,603	122,790	89	71,193	51	4,668	4,167	89	2,091	45
	1982-83	126,037	112,903	90	61,742	49	2,871	2,664	93	784	27
	1983-84	134,711	110,358	82	56,750	42	4,179	3,809	91	1,166	28
	1984-85	137,584	122,259	89	74,317	54	3,813	3,434	90	964	25
	1985-86	152,556	130,498	86	80,159	53	3,187	2,714	85	1,094	34
	1986-87	142,689	115,996	81	61,947	43	2,812	2,579	92	869	31
Minnesota	1979-80	65,308	51,788	79	45,716	70	6,919	6,093	88	5,291	76
	1980-81	56,713	47,056	83	37,408	66	5,987	5,034	84	3,883	65
	1981-82	52,048	41,846	80	35,332	68	5,670	4,836	85	3,967	70
	1982-83	50,147	40,041	80	33,892	68	5,388	4,376	81	3,652	68
	1983-84	49,091	38,154	78	30,681	62	5,294	4,266	81	3,442	65
	1984-85	54,067	44,685	83	37,284	69	5,302	4,345	82	3,676	69
	1985-86	53,355	42,271	79	34,571	65	3,823	2,437	81	1,905	63
	1986-87	56,330	40,394	72	32,526	58	2,843	2,295	81	1,830	64
Mississippi	1979-80	129,902	103,336	80	67,521	52	1,909	1,578	83	952	50
	1980-81	129,604	98,348	76	66,580	51	1,804	1,517	84	709	39
	1981-82	117,934	80,906	69	55,844	47	1,732	903	52	884	51
	1982-83	112,612	81,595	72	51,871	46	1,773	1,160	65	798	45
	1983-84	98,231	67,662	69	44,465	45	1,840	1,178	64	696	38
	1984-85	99,270	59,795	60	49,905	50	1,996	1,173	59	1,019	51
	1985-86	92,343	51,462	56	44,778	48	617	151	24	326	53
	1986-87	92,996	57,279	62	52,257	56	1,687	977	58	1,018	60
Missouri	1979-80	87,216	54,005	62	30,875	35	192	165	86	65	34
	1980-81	95,286	61,754	65	33,707	35	201	109	54	62	31
	1981-82	86,334	57,928	67	30,800	36	208	113	54	71	34
	1982-83	85,689	56,710	66	30,910	36	260	151	58	48	18
	1983-84	83,299	56,297	68	29,984	36	3,965	2,387	60	1,511	38
	1984-85	77,351	50,458	65	27,934	36	4,021	2,411	60	1,438	36
	1985-86	71,023	47,265	67	26,501	37	3,004	1,967	65	1,036	34
	1986-87	71,496	46,018	64	25,165	35	2,833	1,880	66	832	29
Montana	1979-80	12,557	10,610	84	4,081	32	434	292	67	112	26
	1980-81	13,504	8,735	65	4,996	37	450	357	79	249	55
	1981-82	11,765	8,405	71	4,616	39	459	307	67	219	48
	1982-83	11,135	7,486	67	4,605	41	442	306	69	204	46
	1983-84	11,338	8,114	72	4,623	41	426	359	84	174	41
	1984-85	12,345	8,436	68	4,607	37	268	192	72	156	58
	1985-86	13,103	8,492	65	5,510	42	239	141	59	157	66
	1986-87	13,665	8,136	60	6,035	44	191	143	75	150	79
Nebraska	1979-80	26,201	19,777	75	9,080	35	2,905	2,409	83	817	28
	1980-81	23,748	18,441	78	9,483	40	2,555	2,171	85	1,012	40
	1981-82	26,783	19,657	73	9,341	35	3,064	1,082	35	476	16
	1982-83	19,366	15,542	80	7,256	37	2,046	1,862	91	738	36
	1983-84	19,958	16,537	83	6,794	34	2,218	1,777	80	910	41
	1984-85	18,579	14,790	80	7,199	39	1,552	1,162	75	548	35
	1985-86	24,060	15,130	63	7,504	31	911	636	70	267	29
	1986-87	25,231	16,945	67	7,853	31	1,422	960	60	522	37
Nevada	1979-80	5,891	4,846	82	3,270	56	87	34	39	43	49
	1980-81	5,490	2,597	47	2,996	55	98	50	51	52	53
	1981-82	6,692	3,566	53	3,827	57	118	56	47	38	32
	1982-83	7,020	1,941	28	3,655	52	61	27	44	36	59
	1983-84	7,827	2,874	37	4,704	60	91	31	34	52	57
	1984-85	8,479	3,581	42	4,033	48	113	48	42	69	61
	1985-86	9,353	5,248	56	5,181	55	39	10	26	37	95
	1986-87	8,000	6,513	81	2,213	28	143	96	67	98	69
New Hampshire	1979-80	7,855	6,043	77	809	10	479	380	79	43	9
	1980-81	9,046	6,777	75	896	10	520	424	82	48	9
	1981-82	6,687	4,420	66	572	9	399	228	57	54	14
	1982-83	7,481	6,041	81	877	12	395	251	64	42	11
	1983-84	8,544	6,762	79	1,494	17	428	316	74	64	15
	1984-85	9,687	7,876	81	1,986	21	547	339	62	107	20
	1985-86	11,429	8,248	72	2,555	22	411	205	50	34	8
	1986-87	9,759	7,698	79	2,437	25	301	665	221	67	22

Table C.2 (cont'd)

		TOTAL PUBLIC PARTICIPANTS	PUBLIC READING	%	PUBLIC MATHEMATICS	%	TOTAL NONPUBLIC PARTICIPANTS	NONPUBLIC READING	%	NONPUBLIC MATHEMATICS	%
New Jersey	1979-80	108,925	64,315	59	45,065	41	12,454	8,263	66	5,126	41
	1980-81	115,545	78,133	68	53,711	46	12,429	8,983	72	5,747	46
	1981-82	122,785	82,628	67	64,611	53	10,981	7,479	68	4,711	43
	1982-83	130,088	106,258	77	92,899	67	10,956	8,431	77	6,831	62
	1983-84	132,201	104,044	79	88,417	67	9,809	7,815	80	6,015	61
	1984-85	140,538	134,794	77	97,841	66	11,962	9,959	83	7,676	64
	1985-86	158,842	125,835	79	101,207	64	7,364	5,634	77	4,576	62
	1986-87	176,489	144,575	82	119,585	68	6,819	5,469	80	4,443	65
New Mexico	1979-80	31,012	16,741	54	6,091	20	1,373	948	69	248	18
	1980-81	32,343	15,537	48	6,592	20	1,302	845	65	98	8
	1981-82	28,748	15,539	54	5,452	19	1,314	766	58	157	12
	1982-83	26,414	13,715	52	3,545	13	1,241	550	44	135	11
	1983-84	27,074	12,791	47	3,883	14	1,122	561	50	194	17
	1984-85	28,114	13,779	49	3,452	12	1,224	459	38	108	9
	1985-86	30,838	17,037	55	3,167	10	877	546	62	21	2
	1986-87	28,036	11,945	43	4,501	16	1,070	665	62	205	19
New York	1979-80	320,885	260,053	81	109,923	34	26,816	25,941	97	13,500	50
	1980-81	329,780	189,319	57	82,380	25	55,580	40,120	72	21,027	38
	1981-82	328,030	187,469	57	80,120	24	38,767	38,100	98	19,320	50
	1982-83	261,062	190,433	73	91,840	35	37,590	25,807	69	14,265	38
	1983-84	301,750	239,856	79	108,417	36	41,931	27,955	67	15,168	36
	1984-85	335,153	230,238	69	117,058	35	39,663	26,831	68	15,647	39
	1985-86	311,118	225,944	73	88,490	28	31,520	21,041	67	11,038	35
	1986-87	301,175	210,539	70	89,674	30	20,319	13,714	67	7,956	39
North Carolina	1979-80	148,821	130,011	87	28,220	19	726	528	73	119	16
	1980-81	144,649	122,174	84	31,852	22	683	532	78	167	24
	1981-82	135,456	111,409	82	30,734	23	572	2,182	381	142	25
	1982-83	133,372	107,913	81	32,498	24	517	403	78	105	20
	1983-84	131,588	119,109	91	35,667	27	492	448	91	145	29
	1984-85	129,041	104,643	81	31,633	25	454	307	68	153	34
	1985-86	124,908	123,070	99	32,537	26	447	328	73	119	27
	1986-87	113,511	97,801	86	26,792	24	372	292	78	84	23
North Dakota	1979-80	9,703	7,663	79	2,784	29	536	509	95	100	19
	1980-81	9,522	7,535	79	2,438	26	463	389	84	115	25
	1981-82	7,018	5,535	79	2,249	32	347	265	76	104	30
	1982-83	9,962	8,175	82	2,424	24	518	415	80	92	18
	1983-84	8,452	6,929	82	2,322	27	484	423	87	73	15
	1984-85	8,640	7,115	82	2,505	29	491	380	77	110	22
	1985-86	8,804	7,214	82	2,476	28	308	279	91	62	20
	1986-87	8,816	7,081	80	2,814	32	315	269	85	87	28
Ohio	1979-80	138,214	121,123	88	13,441	10	6,040	5,147	85	958	16
	1980-81	135,895	120,048	88	13,832	10	7,861	5,538	70	1,330	17
	1981-82	119,042	105,274	88	10,419	9	7,332	5,183	71	1,042	14
	1982-83	114,124	101,015	89	9,467	8	5,516	4,631	84	1,209	22
	1983-84	126,552	113,387	90	14,260	11	5,830	4,891	84	1,469	25
	1984-85	133,646	117,982	88	15,220	11	5,925	5,189	88	1,281	22
	1985-86	130,924	115,440	88	14,389	11	5,737	4,693	82	1,176	20
	1986-87	122,692	109,834	90	12,850	10	7,997	4,693	59	1,620	20
Oklahoma	1979-80	79,175	57,698	73	26,819	34	273	252	92	81	30
	1980-81	80,231	53,625	67	26,911	34	343	294	86	125	36
	1981-82	68,834	49,464	72	25,226	37	260	221	85	98	38
	1982-83	61,387	44,519	73	20,420	33	312	236	76	319	102
	1983-84	59,896	40,550	68	18,730	31	228	212	93	119	52
	1984-85	62,604	42,565	68	22,459	36	358	215	60	175	49
	1985-86	61,868	42,537	69	20,842	34	213	170	80	123	58
	1986-87	58,371	41,553	71	19,628	34	204	167	82	101	50
Oregon	1979-80	46,476	37,661	81	14,673	32	850	680	80	164	19
	1980-81	30,545	25,068	82	11,299	37	545	467	86	148	27
	1981-82	29,212	24,603	84	9,276	32	606	501	83	145	24
	1982-83	35,497	28,944	82	11,509	32	840	825	98	335	40
	1983-84	34,616	29,164	84	11,197	32	580	475	82	186	32
	1984-85	36,968	29,745	80	11,479	31	620	537	87	200	32
	1985-86	42,148	32,888	78	11,871	28	538	368	68	125	23
	1986-87	42,096	31,610	75	12,227	29	513	482	94	160	31

Table C.2 (cont'd)

		TOTAL PUBLIC PARTICIPANTS	PUBLIC READING	%	PUBLIC MATHEMATICS	%	TOTAL NONPUBLIC PARTICIPANTS	NONPUBLIC READING	%	NONPUBLIC MATHEMATICS	%
Pennsylvania	1979-80	242,703	206,970	85	105,905	44	25,947	24,419	94	4,508	17
	1980-81	240,451	208,324	87	103,334	43	24,959	22,347	90	4,064	16
	1981-82	218,418	194,814	89	96,069	44	22,399	19,861	89	3,461	15
	1982-83	204,818	184,438	90	88,748	43	22,236	19,423	87	3,677	17
	1983-84	204,544	199,421	97	88,266	43	21,656	18,639	86	7,708	36
	1984-85	206,769	174,393	84	66,543	32	21,564	18,577	86	7,970	37
	1985-86	199,845	181,932	91	77,167	39	17,749	14,935	84	5,066	29
	1986-87	198,155	173,828	88	63,779	32	13,697	11,593	85	3,773	28
Rhode Island	1979-80	17,824	7,772	44	2,708	15	921	584	63	288	31
	1980-81	16,073	8,607	54	2,469	15	1,138	673	59	286	25
	1981-82	12,076	9,670	80	2,279	19	906	520	57	150	17
	1982-83	11,196	8,513	76	1,682	15	849	610	72	141	17
	1983-84	11,939	9,066	76	1,791	15	928	650	70	150	16
	1984-85	12,720	9,359	74	2,178	17	723	460	64	182	25
	1985-86	12,285	9,240	75	1,940	16	520	325	63	88	17
	1986-87	13,212	10,370	78	1,548	12	443	334	75	86	19
South Carolina	1979-80	97,363	62,299	64	40,875	42	597	286	48	194	32
	1980-81	90,471	56,922	63	40,359	45	637	283	44	242	38
	1981-82	71,439	41,944	59	32,990	46	571	239	42	243	43
	1982-83	61,528	35,981	58	29,560	48	533	237	44	225	42
	1983-84	57,581	34,120	59	28,161	49	444	170	38	182	41
	1984-85	51,527	31,179	61	25,135	49	295	145	49	139	47
	1985-86	52,588	30,766	59	26,683	51	97	76	78	68	70
	1986-87	51,285	29,197	57	25,153	49	89	59	66	58	65
South Dakota	1979-80	14,373	10,952	76	8,553	60	899	492	55	377	42
	1980-81	14,030	11,036	79	7,660	55	756	427	56	291	38
	1981-82	13,016	10,223	79	7,029	54	800	526	66	364	46
	1982-83	12,070	9,215	76	6,434	53	670	477	71	319	48
	1983-84	11,921	9,114	76	6,517	55	819	514	63	335	41
	1984-85	12,077	9,223	76	6,571	54	800	513	64	310	39
	1985-86	12,350	9,566	77	7,126	58	652	368	56	242	37
	1986-87	12,312	9,239	75	6,943	56	494	367	74	197	40
Tennessee	1979-80	150,306	110,478	74	58,332	39	933	528	57	405	43
	1980-81	101,295	79,395	78	42,615	42	726	480	66	246	34
	1981-82	88,794	67,560	76	34,221	39	48	39	81	21	44
	1982-83	137,223	104,346	76	60,735	44	822	537	65	327	40
	1983-84	91,377	63,531	70	28,344	31	600	423	71	177	30
	1984-85	99,144	77,069	78	42,159	43	460	287	62	225	49
	1985-86	103,135	77,689	75	46,204	45	193	169	88	161	83
	1986-87	102,121	75,928	74	42,825	42	390	329	84	332	85
Texas	1979-80	415,815	317,867	76	180,653	43	5,185	4,203	81	1,823	35
	1980-81	410,372	290,092	71	125,168	31	5,613	2,327	41	1,020	18
	1981-82	345,214	237,312	69	93,248	27	5,636	6,008	107	2,465	44
	1982-83	309,292	212,588	69	83,533	27	6,549	6,981	107	2,864	44
	1983-84	301,451	217,937	72	82,478	27	4,779	3,617	76	1,130	24
	1984-85	292,726	204,789	70	70,902	24	5,022	3,897	78	827	16
	1985-86	362,695	253,173	70	92,188	25	2,883	2,035	71	792	27
	1986-87	345,147	255,129	74	107,089	31	9,472	3,462	37	1,075	11
Utah	1979-80	21,511	18,972	88	10,174	47	178	169	95	51	29
	1980-81	18,903	16,033	85	7,294	39	50	38	76	18	36
	1981-82	17,862	14,257	80	5,704	32	112	55	49	46	41
	1982-83	16,770	14,361	86	5,158	31	69	20	29	0	0
	1983-84	19,053	15,706	82	6,065	32	66	58	88	35	53
	1984-85	22,759	19,719	87	7,509	33	94	94	100	64	68
	1985-86	24,378	20,933	86	8,767	36	116	105	91	100	86
	1986-87	21,971	17,862	81	8,293	38	91	86	95	85	93
Vermont	1979-80	10,462	7,402	71	2,941	28	421	262	62	32	8
	1980-81	10,307	7,634	74	2,717	26	358	333	93	21	6
	1981-82	8,376	6,643	79	1,956	23	388	296	76	20	5
	1982-83	7,574	5,755	76	1,871	25	309	235	76	3	1
	1983-84	8,387	6,388	76	2,389	28	342	193	56	16	5
	1984-85	9,191	6,812	74	2,948	32	328	218	66	36	11
	1985-86	9,610	7,235	75	3,183	33	231	155	67	11	5
	1986-87	8,975	6,545	73	2,865	32	234	96	41	18	8

Table C.2 (cont'd)

		TOTAL PUBLIC PARTICIPANTS	PUBLIC READING	%	PUBLIC MATHEMATICS	%	TOTAL NONPUBLIC PARTICIPANTS	NONPUBLIC READING	%	NONPUBLIC MATHEMATICS	%
Virginia	1979-80	111,772	86,377	77	51,147	46	9	9	100	0	0
	1980-81	104,111	80,681	77	47,355	45	46	8	17	1	2
	1981-82	88,805	68,053	77	36,613	41	16	963	6,019	451	2,819
	1982-83	83,389	65,037	78	36,279	44	0	0	0	0	0
	1983-84	82,547	62,646	76	34,299	42	552	397	72	300	54
	1984-85	82,788	61,762	75	32,362	39	600	337	56	263	44
	1985-86	76,598	54,620	71	29,266	38	705	412	58	282	40
	1986-87	73,020	54,068	74	28,507	39	893	420	47	241	27
Washington	1979-80	59,767	45,527	76	16,125	27	1,291	990	77	409	32
	1980-81	60,292	46,547	77	16,622	28	1,026	772	75	414	40
	1981-82	55,229	43,502	79	15,569	28	981	752	77	377	38
	1982-83	58,312	45,858	79	15,071	26	934	754	81	237	25
	1983-84	59,562	45,624	77	16,249	27	990	790	80	404	41
	1984-85	59,734	44,712	75	16,245	27	1,088	818	75	518	48
	1985-86	64,917	46,209	71	16,183	25	350	304	87	104	30
	1986-87	61,794	43,236	70	14,150	23	668	620	93	316	47
West Virginia	1979-80	43,370	36,953	85	13,971	32	412	373	91	66	16
	1980-81	41,141	34,766	85	14,654	36	367	335	91	49	13
	1981-82	40,564	29,291	72	14,249	35	320	305	95	68	21
	1982-83	31,912	25,237	79	12,364	39	235	235	100	80	34
	1983-84	31,305	24,661	79	12,325	39	213	210	99	68	32
	1984-85	33,100	25,279	76	11,771	36	284	274	96	56	20
	1985-86	33,467	25,974	78	11,940	36	147	0	0	0	0
	1986-87	31,528	23,420	74	12,695	40	202	194	96	30	15
Wisconsin	1979-80	67,439	32,627	48	21,818	32	4,226	1,855	44	1,766	42
	1980-81	67,107	18,616	28	23,577	35	4,055	1,478	36	1,695	42
	1981-82	60,693	18,413	30	21,891	36	3,704	1,314	35	1,493	40
	1982-83	52,926	26,888	51	16,260	31	4,382	914	21	510	12
	1983-84	60,257	29,102	48	20,611	34	4,018	1,749	44	1,202	30
	1984-85	60,238	35,489	59	21,759	36	3,090	1,715	56	1,048	34
	1985-86	65,950	30,720	47	23,739	36	3,458	1,899	55	936	27
	1986-87	63,633	31,897	50	26,853	42	2,926	1,848	63	945	32
Wyoming	1979-80	4,642	3,730	80	1,101	24	93	50	54	12	13
	1980-81	5,398	3,449	64	1,078	20	86	72	84	33	38
	1981-82	4,642	2,849	61	838	18	79	57	72	9	11
	1982-83	3,761	3,290	87	686	18	80	50	63	17	21
	1983-84	4,252	3,409	80	1,122	26	84	77	92	20	24
	1984-85	4,325	3,549	82	1,052	24	48	50	104	11	23
	1985-86	4,047	3,281	81	1,164	29	76	33	43	17	22
	1986-87	3,984	3,337	84	1,043	26	37	30	81	14	38
Guam	1979-80	1,188	663	56	292	25	77	77	100	0	0
	1980-81	1,090	680	62	205	19	112	86	77	40	36
	1981-82	0	0	0	0	0	0	0	0	0	0
	1982-83	0	0	0	0	0	0	0	0	0	0
	1983-84	0	0	0	0	0	0	0	0	0	0
	1984-85	0	0	0	0	0	0	0	0	0	0
	1985-86	0	0	0	0	0	0	0	0	0	0
	1986-87	0	0	0	0	0	0	0	0	0	0
Puerto Rico	1979-80	204,714	0	0	98,983	48	7,937	0	0	2,319	29
	1980-81	256,785	0	0	111,139	43	5,250	0	0	2,418	46
	1981-82	242,164	0	0	126,771	52	4,931	0	0	2,762	56
	1982-83	272,754	0	0	139,879	51	5,277	0	0	2,366	45
	1983-84	269,229	0	0	136,372	51	7,488	0	0	3,212	43
	1984-85	253,354	0	0	126,860	50	6,877	0	0	2,781	40
	1985-86	264,166	0	0	146,270	55	4,783	0	0	2,156	45
	1986-87	240,005	0	0	118,124	49	10,013	0	0	1,011	10
Trust Terr PI	1979-80	12,257	0	0	0	0	1,127	0	0	0	0
	1980-81	16,603	12,146	73	8,721	53	2,038	1,535	75	375	18
	1981-82	21,515	11,133	52	10,260	48	2,440	1,047	43	945	39
	1982-83	0	0	0	0	0	0	0	0	0	0
	1983-84	34,899	37,492	107	33,509	96	3,706	4,343	117	4,343	117
	1984-85	0	0	0	0	0	0	0	0	0	0
	1985-86	0	0	0	0	0	0	0	0	0	0
	1986-87	0	0	0	0	0	0	0	0	0	0

Table C.2 (cont'd)

		TOTAL PUBLIC PARTICIPANTS	PUBLIC READING	%	PUBLIC MATHEMATICS	%	TOTAL NONPUBLIC PARTICIPANTS	NONPUBLIC READING	%	NONPUBLIC MATHEMATICS	%
Virgin Islands	1979-80	1,711	1,711	100	0	0	483	483	100	0	0
	1980-81	0	0	0	0	0	0	0	0	0	0
	1981-82	0	0	0	0	0	0	0	0	0	0
	1982-83	0	0	0	0	0	0	0	0	0	0
	1983-84	0	0	0	0	0	0	0	0	0	0
	1984-85	0	0	0	0	0	0	0	0	0	0
	1985-86	0	0	0	0	0	0	0	0	0	0
	1986-87	0	0	0	0	0	0	0	0	0	0
BIA	1979-80	24,314	0	0	0	0	0	0	0	0	0
	1980-81	32,691	0	0	0	0	0	0	0	0	0
	1981-82	23,545	13,001	55	10,401	44	0	0	0	0	0
	1982-83	23,781	11,292	47	6,618	28	0	0	0	0	0
	1983-84	21,368	10,231	48	8,595	40	0	0	0	0	0
	1984-85	18,157	9,473	52	8,299	46	0	0	0	0	0
	1985-86	15,497	9,020	58	9,894	64	0	0	0	0	0
	1986-87	15,088	10,011	66	8,759	58	0	0	0	0	0

Table C.3

Teacher and Teacher Aide FTE Staff 1986-87

	TOTAL FTE STAFF 1986-87	FTE TEACHERS 1986-87	PERCENT	FTE TEACHER AIDES 1986-87	PERCENT
Alabama	2,750	1,468	53	902	33
Alaska	207	82	40	104	50
Arizona	1,441	725	50	561	39
Arkansas	2,286	781	34	1,378	60
California	14,988	2,231	15	9,896	66
Colorado	1,111	730	66	272	24
Connecticut	1,598	696	44	617	39
Delaware	401	106	26	263	66
District of Columbia	414	111	27	231	56
Florida	5,272	2,527	48	2,322	44
Georgia	3,232	2,288	71	781	24
Hawaii	461	152	33	55	12
Idaho	615	218	35	370	60
Illinois	4,948	3,222	65	918	19
Indiana	4,058	693	17	3,181	78
Iowa	1,414	1,203	85	191	14
Kansas	1,069	631	59	316	30
Kentucky	2,682	1,595	59	841	31
Louisiana	4,514	1,303	29	2,558	57
Maine	1,183	233	20	790	67
Maryland	2,429	579	24	1,480	61
Massachusetts	3,347	1,894	57	1,005	30
Michigan	5,407	1,878	35	2,760	51
Minnesota	2,138	862	40	1,141	53
Mississippi	3,220	1,277	40	1,454	45
Missouri	2,275	1,766	78	429	19
Montana	590	323	55	243	41
Nebraska	757	490	65	208	27
Nevada	253	120	47	107	42
New Hampshire	647	234	36	291	45
New Jersey	5,244	3,024	58	1,552	30
New Mexico	1,102	519	47	461	42
New York	12,677	6,120	48	1,303	10
North Carolina	2,666	1,880	71	485	18
North Dakota	432	270	63	157	36
Ohio	3,757	2,953	79	561	15
Oklahoma	1,794	1,326	74	412	23
Oregon	1,270	535	42	647	51
Pennsylvania	5,581	2,940	53	1,775	32
Rhode Island	358	259	72	52	15
South Carolina	2,228	942	42	1,004	45
South Dakota	682	338	49	340	50
Tennessee	2,935	1,713	58	1,013	35
Texas	9,149	3,535	39	4,767	52
Utah	738	108	15	584	79
Vermont	398	182	46	186	47
Virginia	2,397	1,225	51	867	36
Washington	1,293	644	50	554	43
West Virgina	1,228	542	44	584	48
Wisconsin	1,858	1,221	66	534	29
Wyoming	169	87	52	68	40
Puerto Rico	9,215	4,691	51	1,673	18
BIA	927	303	33	575	62
NATION	143,804	65,773	46	55,817	39

Table C.4

Number and Percent of Total FTE Staff Who Were Administrators, Teachers, or Teacher Aides, by State -- 1979-80 to 1986-87

		ADMINIS-TRATIVE	%	TEACHERS	%	TEACHER AIDES	%	TOTAL STAFF
Nation	1979-80	6,267	3	77,782	40	86,826	45	194,403
	1980-81	4,321	2	80,078	43	80,938	44	185,925
	1981-82	4,655	3	74,786	45	67,536	40	167,748
	1982-83	3,937	3	68,590	46	58,093	39	149,220
	1983-84	4,118	3	68,627	46	57,479	38	150,277
	1984-85	4,764	3	72,797	46	61,380	39	158,967
	1985-86	3,775	2	69,014	45	59,058	39	151,936
	1986-87	3,566	2	65,773	46	55,817	39	143,804
Alabama	1979-80	107	3	2,555	81	146	5	3,146
	1980-81	106	2	2,605	55	1,513	32	4,730
	1981-82	97	2	2,405	56	1,387	32	4,330
	1982-83	93	3	2,087	61	917	27	3,445
	1983-84	86	3	1,905	61	803	26	3,105
	1984-85	86	3	1,521	52	1,016	35	2,933
	1985-86	75	3	1,541	52	1,036	35	2,950
	1986-87	68	2	1,468	53	902	33	2,750
Alaska	1979-80	8	3	84	34	139	57	244
	1980-81	6	3	65	33	113	58	195
	1981-82	6	3	78	38	113	55	206
	1982-83	6	3	57	33	85	49	173
	1983-84	6	2	108	45	112	46	242
	1984-85	8	4	50	28	85	49	175
	1985-86	7	6	29	26	71	64	112
	1986-87	6	3	82	40	104	50	207
Arizona	1979-80	73	3	753	28	1,632	62	2,653
	1980-81	57	2	711	28	1,488	59	2,512
	1981-82	72	5	531	34	744	48	1,566
	1982-83	53	4	588	39	755	51	1,490
	1983-84	34	3	560	43	548	42	1,314
	1984-85	37	2	544	35	837	54	1,561
	1985-86	40	2	735	40	934	51	1,847
	1986-87	46	3	725	50	561	39	1,441
Arkansas	1979-80	71	2	1,341	34	2,216	56	3,941
	1980-81	78	2	1,311	35	2,094	56	3,759
	1981-82	75	2	1,147	36	1,773	55	3,222
	1982-83	65	2	1,051	37	1,577	56	2,830
	1983-84	61	2	1,000	37	1,517	56	2,723
	1984-85	50	2	923	37	1,406	57	2,470
	1985-86	46	2	857	35	1,445	59	2,437
	1986-87	49	2	781	34	1,378	60	2,286
California	1979-80	108	1	1,704	15	7,934	70	11,412
	1980-81	108	1	2,184	18	6,894	58	11,819
	1981-82	354	3	1,599	13	8,683	73	11,885
	1982-83	86	1	2,343	22	6,270	60	10,460
	1983-84	234	1	2,436	15	11,580	69	16,703
	1984-85	363	2	2,571	17	9,595	63	15,172
	1985-86	325	3	2,013	16	8,328	65	12,884
	1986-87	379	3	2,231	15	9,896	66	14,988
Colorado	1979-80	41	2	861	50	680	40	1,719
	1980-81	34	2	887	52	574	33	1,719
	1981-82	35	2	771	53	446	31	1,441
	1982-83	29	2	724	58	353	28	1,248
	1983-84	26	2	787	61	321	25	1,290
	1984-85	34	3	833	62	334	25	1,338
	1985-86	33	3	799	60	421	32	1,321
	1986-87	31	3	730	66	272	24	1,111
Connecticut	1979-80	0	0	1,174	44	1,146	43	2,683
	1980-81	53	3	835	44	817	43	1,883
	1981-82	65	4	870	48	738	41	1,803
	1982-83	65	4	870	48	738	41	1,803
	1983-84	48	3	746	49	553	36	1,535
	1984-85	56	3	901	48	787	42	1,879
	1985-86	38	2	715	42	767	45	1,694
	1986-87	45	3	696	44	617	39	1,598
Delaware	1979-80	12	2	129	26	323	65	494
	1980-81	16	3	128	25	318	63	506
	1981-82	14	3	147	29	276	54	516
	1982-83	12	3	103	28	222	60	369
	1983-84	12	3	116	30	232	61	382
	1984-85	12	3	123	31	235	59	400
	1985-86	13	3	133	32	241	59	411
	1986-87	10	2	106	26	263	66	401

Table C.4 (cont'd.)

		ADMINIS-TRATIVE	%	TEACHERS	%	TEACHER AIDES	%	TOTAL STAFF
D. C.	1979-80	19	2	282	36	337	43	778
	1980-81	17	2	259	35	331	44	748
	1981-82	15	2	205	33	290	47	621
	1982-83	13	3	126	24	309	60	518
	1983-84	17	3	116	21	273	49	556
	1984-85	14	3	110	24	271	59	457
	1985-86	12	3	103	26	229	57	399
	1986-87	16	4	111	27	231	56	414
Florida	1979-80	77	1	2,610	38	3,304	49	6,803
	1980-81	78	1	3,416	49	3,028	43	6,999
	1981-82	85	2	1,898	39	2,283	47	4,876
	1982-83	67	1	1,919	40	2,468	51	4,794
	1983-84	71	1	2,505	46	2,333	43	5,486
	1984-85	84	1	2,452	42	3,008	51	5,847
	1985-86	80	1	2,598	45	2,786	48	5,832
	1986-87	74	1	2,527	48	2,322	44	5,272
Georgia	1979-80	131	2	3,193	52	2,608	42	6,138
	1980-81	105	2	2,786	55	1,977	39	5,048
	1981-82	109	2	3,212	60	1,781	33	5,346
	1982-83	117	3	2,451	61	1,332	33	4,041
	1983-84	93	3	2,361	66	1,005	28	3,579
	1984-85	156	4	2,340	67	825	24	3,498
	1985-86	87	3	2,193	64	1,047	30	3,453
	1986-87	71	2	2,288	71	781	24	3,232
Hawaii	1979-80	3	1	355	64	194	35	552
	1980-81	0	0	378	70	93	17	541
	1981-82	0	0	266	70	65	17	382
	1982-83	4	1	206	70	32	11	294
	1983-84	3	1	226	55	43	11	407
	1984-85	3	1	164	42	49	13	391
	1985-86	2	0	167	39	58	14	424
	1986-87	2	0	152	33	55	12	461
Idaho	1979-80	25	3	225	28	341	42	817
	1980-81	19	3	232	36	345	53	649
	1981-82	17	3	200	34	312	54	581
	1982-83	17	3	202	37	275	50	548
	1983-84	16	3	224	37	261	44	597
	1984-85	20	3	232	36	362	55	652
	1985-86	22	3	207	33	373	60	619
	1986-87	17	3	218	35	370	60	615
Illinois	1979-80	127	2	3,477	59	1,539	26	5,934
	1980-81	140	2	3,349	58	1,465	25	5,750
	1981-82	224	5	3,075	63	960	20	4,878
	1982-83	211	5	2,850	65	757	17	4,390
	1983-84	214	5	3,054	65	842	18	4,725
	1984-85	237	4	4,162	71	852	15	5,853
	1985-86	223	4	3,334	65	897	18	5,099
	1986-87	245	5	3,222	65	918	19	4,948
Indiana	1979-80	74	2	767	19	2,620	65	4,019
	1980-81	48	1	628	18	2,624	74	3,526
	1981-82	43	1	548	15	2,780	78	3,546
	1982-83	41	1	525	17	2,378	77	3,075
	1983-84	63	2	569	19	2,301	76	3,024
	1984-85	80	2	693	18	3,014	78	3,880
	1985-86	67	2	691	17	3,259	79	4,143
	1986-87	59	1	693	17	3,181	78	4,058
Iowa	1979-80	0	0	1,588	81	231	12	1,955
	1980-81	57	4	1,319	83	141	9	1,587
	1981-82	50	4	1,167	86	97	7	1,357
	1982-83	0	0	1,063	90	89	8	1,174
	1983-84	22	2	1,028	89	86	7	1,157
	1984-85	0	0	1,074	92	80	7	1,170
	1985-86	0	0	1,094	91	85	7	1,197
	1986-87	0	0	1,203	85	191	14	1,414
Kansas	1979-80	43	3	855	57	547	37	1,497
	1980-81	148	8	1,099	61	500	28	1,807
	1981-82	227	10	1,246	57	447	20	2,198
	1982-83	26	2	684	58	417	35	1,188
	1983-84	36	3	588	55	371	35	1,068
	1984-85	26	2	757	60	392	31	1,263
	1985-86	20	2	674	61	341	31	1,105
	1986-87	18	2	631	59	316	30	1,069
Kentucky	1979-80	101	3	2,059	52	1,348	34	3,945
	1980-81	92	2	2,065	54	1,283	33	3,849
	1981-82	83	2	1,898	57	1,022	31	3,340
	1982-83	81	3	1,700	57	937	31	3,000
	1983-84	85	3	1,638	61	720	27	2,703
	1984-85	78	3	1,751	58	975	32	3,023
	1985-86	92	3	1,697	57	933	31	2,967
	1986-87	73	3	1,595	59	841	31	2,698

Table C.4 (cont'd)

		ADMINIS-TRATIVE	%	TEACHERS	%	TEACHER AIDES	%	TOTAL STAFF
Louisiana	1979-80	93	2	1,716	28	3,296	55	6,033
	1980-81	148	3	1,867	32	3,107	53	5,857
	1981-82	189	4	1,369	30	2,419	53	4,571
	1982-83	90	2	1,195	29	2,285	56	4,082
	1983-84	179	4	1,327	31	2,270	53	4,301
	1984-85	71	2	1,317	30	2,475	56	4,434
	1985-86	78	2	772	19	2,673	64	4,159
	1986-87	102	2	1,303	29	2,558	57	4,514
Maine	1979-80	0	0	238	17	904	65	1,387
	1980-81	0	0	224	21	490	45	1,092
	1981-82	0	0	169	13	605	45	1,341
	1982-83	0	0	146	14	765	72	1,059
	1983-84	0	0	161	16	399	40	998
	1984-85	0	0	154	14	853	76	1,121
	1985-86	0	0	152	15	703	70	1,001
	1986-87	0	0	233	20	790	67	1,183
Maryland	1979-80	51	1	704	17	2,786	66	4,230
	1980-81	43	1	633	19	2,119	63	3,372
	1981-82	52	2	415	15	1,781	63	2,846
	1982-83	47	2	679	25	1,789	65	2,764
	1983-84	43	1	832	27	1,642	53	3,083
	1984-85	33	1	927	31	1,856	63	2,957
	1985-86	23	1	756	28	1,782	66	2,699
	1986-87	32	1	579	24	1,480	61	2,429
Massachusetts	1979-80	160	3	2,438	47	2,102	41	5,151
	1980-81	116	2	2,234	46	2,070	42	4,879
	1981-82	122	3	2,134	57	1,187	32	3,742
	1982-83	122	4	1,871	55	1,033	30	3,423
	1983-84	131	3	2,251	56	1,272	31	4,055
	1984-85	118	3	2,249	62	998	28	3,617
	1985-86	108	3	1,978	57	1,105	32	3,495
	1986-87	112	3	1,894	57	1,005	30	3,347
Michigan	1979-80	266	4	1,995	29	4,047	59	6,891
	1980-81	255	4	2,031	28	4,183	59	7,137
	1981-82	218	4	1,853	31	3,272	55	5,936
	1982-83	185	4	1,430	31	2,491	55	4,569
	1983-84	331	6	1,715	31	2,947	54	5,496
	1984-85	221	4	1,785	34	2,794	53	5,246
	1985-86	251	5	1,857	35	2,827	53	5,365
	1986-87	206	4	1,878	35	2,760	51	5,407
Minnesota	1979-80	130	3	1,808	43	1,877	45	4,170
	1980-81	202	6	1,460	42	1,597	46	3,485
	1981-82	84	3	1,304	46	1,356	48	2,822
	1982-83	93	4	1,024	43	1,142	48	2,361
	1983-84	58	3	991	43	1,202	52	2,300
	1984-85	41	2	928	43	1,145	53	2,170
	1985-86	36	2	389	24	1,140	69	1,645
	1986-87	76	4	862	40	1,141	53	2,138
Mississippi	1979-80	168	3	2,319	39	2,847	47	6,004
	1980-81	129	2	2,163	39	2,568	47	5,477
	1981-82	130	3	1,886	41	1,999	43	4,600
	1982-83	124	3	1,744	40	1,930	45	4,321
	1983-84	118	3	1,724	45	1,501	39	3,807
	1984-85	127	3	1,826	45	1,645	41	4,023
	1985-86	125	3	1,679	46	1,398	39	3,613
	1986-87	124	4	1,277	40	1,454	45	3,220
Missouri	1979-80	28	1	2,188	66	955	29	3,317
	1980-81	26	1	2,204	65	992	29	3,360
	1981-82	30	1	2,116	70	778	26	3,028
	1982-83	32	1	1,961	68	626	22	2,876
	1983-84	31	1	2,002	76	535	20	2,619
	1984-85	24	1	1,757	78	429	19	2,258
	1985-86	23	1	1,734	79	391	18	2,186
	1986-87	23	1	1,766	78	429	19	2,275
Montana	1979-80	20	3	321	42	406	53	773
	1980-81	12	2	319	44	354	49	717
	1981-82	18	3	291	44	312	48	657
	1982-83	6	1	253	50	230	46	502
	1983-84	6	1	233	49	215	45	472
	1984-85	11	2	254	49	247	47	521
	1985-86	13	2	276	50	248	45	551
	1986-87	15	3	323	55	243	41	590
Nebraska	1979-80	36	3	672	55	424	35	1,218
	1980-81	44	4	653	57	370	32	1,139
	1981-82	11	1	484	66	211	29	733
	1982-83	18	2	507	61	299	36	836
	1983-84	14	2	506	61	258	31	832
	1984-85	15	2	562	66	227	27	850
	1985-86	21	3	534	64	235	28	840
	1986-87	14	2	490	65	208	27	757

Table C.4 (cont'd)

		ADMINIS-TRATIVE	%	TEACHERS	%	TEACHER AIDES	%	TOTAL STAFF
Nevada	1979-80	3	1	96	40	99	41	241
	1980-81	4	2	110	40	100	36	275
	1981-82	4	2	99	46	92	43	213
	1982-83	2	1	79	41	88	46	193
	1983-84	2	1	100	41	125	52	241
	1984-85	2	1	117	47	116	47	247
	1985-86	4	1	132	48	113	42	273
	1986-87	3	1	120	47	107	42	253
New Hampshire	1979-80	45	8	149	25	318	54	592
	1980-81	44	7	180	28	305	47	644
	1981-82	61	10	175	28	332	54	615
	1982-83	26	7	118	29	214	53	404
	1983-84	28	6	121	27	256	57	449
	1984-85	64	12	151	27	252	46	550
	1985-86	34	6	173	32	274	51	540
	1986-87	35	5	234	36	291	45	647
New Jersey	1979-80	205	4	2,673	54	1,410	28	4,985
	1980-81	218	5	2,421	51	1,506	32	4,770
	1981-82	206	5	2,410	59	1,183	29	4,088
	1982-83	206	5	2,410	59	1,183	29	4,088
	1983-84	184	5	2,204	56	1,156	29	3,950
	1984-85	202	4	2,719	56	1,453	30	4,883
	1985-86	160	3	2,931	57	1,470	28	5,175
	1986-87	231	4	3,024	58	1,552	30	5,244
New Mexico	1979-80	7	0	662	39	829	49	1,678
	1980-81	7	0	655	42	717	46	1,555
	1981-82	4	0	608	45	617	45	1,364
	1982-83	9	1	553	42	579	44	1,302
	1983-84	11	1	560	47	530	44	1,191
	1984-85	14	1	574	46	548	44	1,244
	1985-86	10	1	591	46	563	44	1,289
	1986-87	10	1	519	47	461	42	1,102
New York	1979-80	257	2	6,485	41	8,220	52	15,722
	1980-81	245	2	6,251	42	7,666	52	14,861
	1981-82	235	2	5,361	51	1,278	12	10,612
	1982-83	190	2	4,177	45	748	8	9,219
	1983-84	437	4	5,914	49	1,053	9	12,072
	1984-85	505	4	5,694	48	1,076	9	11,915
	1985-86	213	2	7,439	55	976	7	13,578
	1986-87	435	3	6,120	48	1,303	10	12,677
North Carolina	1979-80	122	2	2,817	43	3,161	49	6,478
	1980-81	136	2	3,109	52	2,365	39	6,019
	1981-82	134	3	2,530	57	1,360	31	4,424
	1982-83	99	3	2,412	62	974	25	3,865
	1983-84	110	3	2,411	64	907	24	3,749
	1984-85	96	3	2,256	65	833	24	3,488
	1985-86	100	3	2,184	68	584	18	3,196
	1986-87	78	3	1,880	71	485	18	2,666
North Dakota	1979-80	7	1	386	66	187	32	581
	1980-81	26	3	494	64	246	32	772
	1981-82	3	1	278	67	132	32	417
	1982-83	4	1	330	67	156	32	492
	1983-84	3	1	312	68	144	31	460
	1984-85	4	1	307	66	152	33	464
	1985-86	3	1	294	67	141	32	439
	1986-87	3	1	270	63	157	36	432
Ohio	1979-80	130	2	3,679	70	1,228	23	5,264
	1980-81	139	3	3,382	67	1,112	22	5,065
	1981-82	123	3	3,016	73	832	20	4,150
	1982-83	102	3	2,708	77	561	16	3,510
	1983-84	108	3	3,004	78	601	16	3,860
	1984-85	109	3	3,140	76	736	18	4,109
	1985-86	101	3	3,092	78	620	16	3,976
	1986-87	97	3	2,953	79	561	15	3,757
Oklahoma	1979-80	115	4	1,646	57	915	32	2,896
	1980-81	58	2	1,569	60	865	33	2,601
	1981-82	43	2	1,374	61	683	30	2,268
	1982-83	32	2	1,219	66	551	30	1,841
	1983-84	28	1	1,225	66	552	30	1,847
	1984-85	21	1	1,758	67	802	31	2,613
	1985-86	14	1	1,209	61	732	37	1,990
	1986-87	25	1	1,326	74	412	23	1,794
Oregon	1979-80	41	2	656	35	1,045	56	1,871
	1980-81	64	5	460	33	747	54	1,378
	1981-82	70	6	452	37	620	50	1,231
	1982-83	22	2	425	38	571	51	1,110
	1983-84	31	3	460	42	563	51	1,107
	1984-85	69	5	489	37	646	48	1,334
	1985-86	27	2	582	42	718	52	1,393
	1986-87	27	2	535	42	647	51	1,279

Table C.4 (cont'd)

		ADMINISTRATIVE	%	TEACHERS	%	TEACHER AIDES	%	TOTAL STAFF
Pennsylvania	1979-80	376	5	197	2	3,394	41	8,345
	1980-81	138	2	3,688	47	3,113	40	7,812
	1981-82	125	2	3,204	49	2,458	38	6,549
	1982-83	115	2	2,924	50	2,147	36	5,900
	1983-84	120	2	3,019	51	2,113	36	5,884
	1984-85	114	2	2,186	36	2,167	36	6,044
	1985-86	109	2	1,758	32	2,102	38	5,484
	1986-87	110	2	2,940	53	1,775	32	5,581
Rhode Island	1979-80	21	3	339	52	187	29	646
	1980-81	21	4	298	59	94	19	504
	1981-82	19	3	346	64	114	21	537
	1982-83	27	6	265	62	59	14	426
	1983-84	26	6	257	62	57	14	413
	1984-85	21	6	246	66	61	16	373
	1985-86	18	5	259	69	49	13	377
	1986-87	12	3	259	72	52	15	358
South Carolina	1979-80	95	2	1,621	36	2,223	50	4,456
	1980-81	84	2	1,651	36	2,257	50	4,536
	1981-82	78	2	1,279	36	1,746	49	3,569
	1982-83	75	2	1,132	36	1,530	49	3,147
	1983-84	76	3	1,142	39	1,347	46	2,955
	1984-85	81	3	1,091	40	1,250	46	2,729
	1985-86	62	2	986	40	1,136	46	2,474
	1986-87	54	2	942	42	1,004	45	2,228
South Dakota	1979-80	6	1	457	45	491	49	1,010
	1980-81	4	0	404	44	437	48	918
	1981-82	3	0	388	49	350	45	785
	1982-83	3	0	348	48	371	51	725
	1983-84	3	0	359	48	386	51	750
	1984-85	2	0	347	51	319	47	675
	1985-86	4	1	372	61	232	38	611
	1986-87	2	0	338	49	340	50	682
Tennessee	1979-80	496	8	2,911	49	2,080	35	5,969
	1980-81	98	2	2,061	50	1,796	44	4,120
	1981-82	84	2	1,592	46	1,579	46	3,457
	1982-83	107	2	2,572	56	1,645	36	4,613
	1983-84	87	3	1,688	61	903	32	2,782
	1984-85	84	3	1,828	58	1,072	34	3,153
	1985-86	82	3	1,803	58	1,086	35	3,128
	1986-87	78	3	1,713	58	1,013	35	2,935
Texas	1979-80	1,662	12	5,068	36	5,734	41	13,951
	1980-81	231	2	5,980	44	5,824	43	13,640
	1981-82	306	2	6,352	36	9,112	52	17,512
	1982-83	274	2	5,690	36	8,163	52	15,690
	1983-84	252	3	3,777	43	3,744	43	8,743
	1984-85	810	5	7,102	45	6,613	42	15,703
	1985-86	570	5	4,855	39	6,111	49	12,544
	1986-87	110	1	3,535	39	4,767	52	9,149
Utah	1979-80	18	2	185	20	706	74	951
	1980-81	13	2	139	17	604	76	796
	1981-82	12	2	120	15	624	78	796
	1982-83	12	2	103	14	598	80	750
	1983-84	35	3	117	11	851	80	1,067
	1984-85	13	1	115	13	653	72	909
	1985-86	11	1	117	13	648	74	878
	1986-87	15	2	108	15	584	79	738
Vermont	1979-80	17	3	232	46	224	44	509
	1980-81	19	4	216	46	199	43	466
	1981-82	13	3	188	48	166	42	391
	1982-83	12	4	162	49	142	43	333
	1983-84	12	3	174	47	164	45	367
	1984-85	15	4	197	47	182	43	421
	1985-86	15	3	205	48	193	45	428
	1986-87	17	4	182	46	186	47	398
Virginia	1979-80	114	2	1,760	35	2,630	52	5,032
	1980-81	104	2	1,715	35	2,442	50	4,882
	1981-82	107	3	1,486	40	1,716	46	3,733
	1982-83	87	3	1,405	42	1,498	45	3,334
	1983-84	86	3	1,416	45	1,340	42	3,165
	1984-85	84	3	1,360	46	1,214	41	2,966
	1985-86	77	3	1,280	49	1,008	38	2,623
	1986-87	69	3	1,225	51	867	36	2,397
Washington	1979-80	48	3	758	48	675	43	1,584
	1980-81	73	4	805	48	672	40	1,682
	1981-82	38	3	677	51	531	40	1,327
	1982-83	34	3	665	50	576	43	1,329
	1983-84	35	3	683	50	579	43	1,353
	1984-85	36	3	661	50	560	43	1,314
	1985-86	78	4	932	52	682	38	1,797
	1986-87	34	3	644	50	554	43	1,293

Table C.4 (cont'd)

		ADMINIS-TRATIVE	%	TEACHERS	%	TEACHER AIDES	%	TOTAL STAFF
West Virginia	1979-80	55	3	701	34	1,102	53	2,061
	1980-81	53	3	638	33	1,081	56	1,945
	1981-82	53	3	569	33	976	56	1,658
	1982-83	42	3	694	34	812	56	1,449
	1983-84	37	3	520	39	716	53	1,366
	1984-85	43	3	571	41	695	50	1,397
	1985-86	36	3	566	43	651	49	1,330
	1986-87	34	3	542	44	584	48	1,228
Wisconsin	1979-80	105	3	1,478	48	1,246	40	3,087
	1980-81	46	2	1,441	51	1,133	39	2,818
	1981-82	36	1	1,710	62	856	31	2,757
	1982-83	443	20	1,295	59	391	18	2,209
	1983-84	44	2	1,222	67	465	26	1,812
	1984-85	44	2	1,241	65	536	28	1,931
	1985-86	41	2	1,311	69	473	25	1,902
	1986-87	38	2	1,221	66	534	29	1,858
Wyoming	1979-80	11	5	119	52	88	39	228
	1980-81	6	3	117	56	83	40	209
	1981-82	54	28	98	50	34	17	194
	1982-83	3	2	94	66	38	27	142
	1983-84	3	2	97	63	49	32	154
	1984-85	3	2	97	60	58	35	163
	1985-86	5	3	92	55	66	39	169
	1986-87	4	3	87	52	68	40	169
Guam	1979-80	1	1	35	41	34	40	86
	1980-81	2	2	34	39	34	39	88
	1981-82	0	0	0	0	0	0	0
	1982-83	0	0	0	0	0	0	0
	1983-84	0	0	0	0	0	0	0
	1984-85	0	0	0	0	0	0	0
	1985-86	0	0	0	0	0	0	0
	1986-87	0	0	0	0	0	0	0
Puerto Rico	1979-80	273	4	3,915	62	397	6	6,364
	1980-81	245	3	3,735	50	959	13	7,512
	1981-82	331	3	6,797	63	950	9	10,869
	1982-83	282	3	6,357	61	1,310	13	10,445
	1983-84	267	3	5,723	55	1,732	17	10,343
	1984-85	288	3	5,321	52	1,938	19	10,217
	1985-86	122	1	5,884	54	2,008	18	10,981
	1986-87	110	1	4,691	51	1,673	18	9,215
Trust Terr PI	1979-80	18	5	33	9	255	68	377
	1980-81	32	5	219	32	319	47	674
	1981-82	33	6	124	21	328	55	597
	1982-83	0	0	0	0	0	0	0
	1983-84	20	3	134	21	351	54	648
	1984-85	0	0	0	0	0	0	0
	1985-86	0	0	0	0	0	0	0
	1986-87	0	0	0	0	0	0	0
Virgin Islands	1979-80	5	3	39	26	71	47	150
	1980-81	0	0	0	0	0	0	0
	1981-82	0	0	0	0	0	0	0
	1982-83	0	0	0	0	0	0	0
	1983-84	0	0	0	0	0	0	0
	1984-85	0	0	0	0	0	0	0
	1985-86	0	0	0	0	0	0	0
	1986-87	0	0	0	0	0	0	0
BIA	1979-80	44	3	274	20	947	68	1,387
	1980-81	75	6	259	21	834	67	1,244
	1981-82	58	5	291	23	853	66	1,286
	1982-83	31	3	295	28	690	64	1,072
	1983-84	37	4	284	28	657	65	1,015
	1984-85	33	3	270	27	656	66	990
	1985-86	23	3	264	29	611	67	916
	1986-87	25	3	303	33	575	62	927

APPENDIX D

ADDITIONAL ACHIEVEMENT INFORMATION FOR 1986-87

This appendix provides additional tables displaying the achievement information for 1986-87. The first set of tables--Tables D.1 through D.4--presents the reading and mathematics achievement results for Chapter 1 students tested on a fall-spring cycle in 1986-87. These tables correspond to Tables 2.1, 2.2, 2.3, and 2.4 in the text, which present achievement results for students tested on an annual cycle.

The second set of tables--Tables D.5 through D.8--presents the pretest percentiles, the posttest percentiles, and the NCE gain scores by grade, for the nation, and the highest and lowest scores.

The third set of tables--Tables D.9 through D.12--presents state-by-state and grade-by-grade listings of the following achievement information: sample weight, membership, weighted number tested, pretest NCE, pretest percentile, posttest NCE, posttest percentile, and gain NCE.

In the second and third sets, the tables are provided in the following order:

- annual reading;
- fall-spring reading;
- annual mathematics; and
- fall-spring mathematics.

Table D.1

Reading Achievement Results for Chapter 1 Students
Tested on a Fall-Spring Cycle -- 1986-87

Grade	Weighted Number Tested	Number of States Reporting	Percentile		
			Pretest	Posttest	Change
2	173,553	47	20	35	15
3	150,805	47	20	32	12
4	128,105	47	20	32	12
5	110,020	47	20	30	10
6	88,804	47	20	30	10
7	59,204	47	19	27	8
8	47,894	47	18	26	8
9	30,437	44	17	23	6
10	15,309	44	17	23	6
11	7,650	43	16	21	5
12	4,135	41	15	20	5

Table D.2

Mathematics Achievement Results for Chapter 1 Students
Tested on a Fall-Spring Cycle -- 1986-87

Grade	Weighted Number Tested	Number of States Reporting	Percentile		
			Pretest	Posttest	Change
2	56,239	45	21	42	21
3	63,751	46	20	38	18
4	65,625	46	21	37	16
5	58,977	46	21	35	14
6	48,398	46	21	35	14
7	35,799	46	21	31	10
8	28,139	46	22	30	8
9	17,055	38	20	29	9
10	8,124	36	24	33	9
11	2,990	32	20	27	7
12	1,274	30	18	25	7

Table D.3

Reading Achievement Posttest Percentiles and Percentile Gains for Chapter 1 Students Tested on a Fall-Spring Cycle -- 1979-80 to 1986-87

	Posttest Percentile							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	32	31	31	35	36	37	36	35
3	25	27	29	31	31	33	33	32
4	24	27	28	29	31	31	33	32
5	24	26	28	29	29	30	31	30
6	24	26	27	29	29	30	32	30
7	22	24	25	27	28	29	28	27
8	22	23	24	26	27	28	28	26
9	21	22	24	25	25	25	24	23
10	20	21	23	22	23	22	23	23
11	17	19	19	21	19	18	21	21
12	17	18	18	21	19	18	22	20

	Changes in Percentile Ranks							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	14	13	13	15	16	15	16	15
3	10	10	10	12	12	12	13	12
4	9	10	10	10	11	11	12	12
5	8	8	10	10	10	9	10	10
6	8	8	8	9	9	9	11	10
7	7	7	7	7	9	8	9	8
8	7	6	6	7	7	8	9	8
9	6	7	6	7	7	7	6	6
10	5	6	6	6	6	5	6	6
11	3	5	4	5	5	3	5	5
12	5	5	6	3	5	4	4	5

Table D.4

Mathematics Achievement Posttest Percentiles and Percentile Gains for Chapter 1 Students Tested on a Fall-Spring Cycle -- 1979-80 to 1986-87

	Posttest Percentile							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	35	36	39	41	41	44	44	42
3	31	32	33	37	37	39	39	38
4	31	33	34	36	38	37	38	37
5	29	31	33	34	35	36	36	35
6	29	30	33	35	35	37	36	35
7	26	28	30	34	33	34	33	31
8	25	27	30	32	32	33	32	30
9	25	27	31	29	31	29	29	29
10	27	27	30	25	28	27	25	33
11	28	26	26	27	30	27	25	27
12	27	25	26	27	29	27	26	25

	Changes in Percentile Ranks							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	16	17	19	19	21	22	23	21
3	13	13	13	16	17	18	19	18
4	13	14	15	15	16	17	18	16
5	12	13	13	13	14	14	16	14
6	11	10	13	13	13	14	15	14
7	9	8	9	10	10	10	11	10
8	8	8	8	9	10	10	9	8
9	9	9	11	9	11	11	10	9
10	8	8	7	5	6	6	7	9
11	8	7	8	7	9	7	6	7
12	9	5	7	7	7	8	5	7

Table D.5

Reading Achievement Pretest Percentiles, Posttest Percentiles, and NCE Gain Scores for Chapter 1 Students Tested on an Annual Cycle - National, Lowest and Highest Standing -- 1986-87 [a/]

	Pretest Percentiles			Posttest Percentiles			NCE Gain Scores		
Grade	National	Lowest	Highest	National	Lowest	Highest	National	Lowest	Highest
2	24	6	39	28	8	46	2.8	-2.2	11.1
3	21	10	40	26	7	42	3.3	-4.2	11.1
4	22	8	40	28	8	44	3.5	-1.5	6.5
5	23	6	35	27	9	40	2.6	-1.0	9.6
6	22	6	29	27	6	36	3.1	-0.3	8.5
7	23	9	29	26	9	36	2.5	-0.2	6.5
8	22	4	29	25	8	35	2.1	-6.2	8.0
9	22	4	46	24	8	30	1.3	-20.7	6.5
10	22	7	55	24	8	38	1.0	-5.2	14.3
11	19	5	28	22	5	37	1.8	-10.4	8.8
12	16	1	52	18	6	29	1.4	-17.6	12.0

a/ Values at the extremes are frequently a function of small numbers of Chapter 1 students tested.

Table D.6

Reading Achievement Pretest Percentiles, Posttest Percentiles, and NCE Gain Scores for Chapter 1 Students Tested on a Fall-Spring Cycle - National, Lowest and Highest Standing -- 1986-87 [a/]

	Pretest Percentiles			Posttest Percentiles			NCE Gain Scores		
Grade	National	Lowest	Highest	National	Lowest	Highest	National	Lowest	Highest
2	20	7	36	35	14	50	9.5	0.2	14.9
3	20	8	30	32	13	44	8.0	0.9	17.0
4	20	10	32	32	12	44	7.2	2.2	10.9
5	20	10	33	30	13	43	6.3	2.7	10.6
6	20	10	34	30	14	43	6.5	3.0	13.0
7	19	8	31	27	10	46	5.6	1.2	8.8
8	18	7	34	26	14	41	5.1	0.5	13.1
9	17	6	28	23	8	39	4.5	0.0	10.6
10	17	6	26	23	1	40	4.4	-18.0	13.5
11	16	3	31	21	3	40	4.4	-4.6	16.0
12	15	1	55	20	2	65	4.3	-4.0	29.0

a/ Values at the extremes are frequently a function of small numbers of Chapter 1 students tested.

Table D.7

Mathematics Achievement Pretest Percentiles, Posttest Percentiles, and NCE Gain Scores for Chapter 1 Students Tested on an Annual Cycle - National, Lowest and Highest Standing -- 1986-87 [a/]

	Pretest Percentiles			Posttest Percentiles			NCE Gain Scores		
Grade	National	Lowest	Highest	National	Lowest	Highest	National	Lowest	Highest
2	28	7	75	38	11	94	6.0	-3.8	19.3
3	26	7	46	33	9	54	4.2	-4.1	12.8
4	25	8	44	33	9	50	4.7	-1.1	11.7
5	26	5	36	33	7	51	4.2	-0.3	12.6
6	26	9	38	33	3	54	4.0	-9.5	9.1
7	27	5	39	32	13	45	3.0	-2.3	11.9
8	26	8	37	30	4	43	2.5	-6.9	11.8
9	29	4	39	34	4	55	2.7	-6.0	14.0
10	29	5	35	32	2	44	1.9	-12.5	14.5
11	30	3	38	33	5	43	2.1	-12.0	7.0
12	25	1	51	29	1	46	2.4	-9.0	23.7

a/ Values at the extremes are frequently a function of small numbers of Chapter 1 students tested.

Table D.8

Mathematics Achievement Pretest Percentiles, Posttest Percentiles, and NCE Gain Scores for Chapter 1 Students Tested on a Fall-Spring Cycle - National, Lowest and Highest Standing -- 1986-87 [a/]

	Pretest Percentiles			Posttest Percentiles			NCE Gain Scores		
Grade	National	Lowest	Highest	National	Lowest	Highest	National	Lowest	Highest
2	21	10	41	42	20	81	12.5	5.1	23.8
3	20	8	34	38	19	59	11.1	1.5	25.4
4	21	8	29	37	21	48	10.0	2.4	20.8
5	21	11	33	35	22	49	8.5	1.7	14.1
6	21	4	39	35	19	46	8.6	2.2	17.3
7	21	1	41	31	2	50	6.3	0.5	20.7
8	22	11	40	30	17	46	5.5	0.7	14.9
9	20	5	36	29	12	49	6.2	-3.0	28.2
10	24	5	38	33	6	50	5.6	-4.7	20.9
11	20	2	41	27	5	65	4.7	-9.0	23.8
12	18	4	53	25	2	62	5.4	-5.5	27.3

a/ Values at the extremes are frequently a function of small numbers of Chapter 1 students tested.

Table D.9

Reading Achievement Information for Chapter 1 Participants Tested on an Annual Cycle, by Grade and by State -- 1986-87

1986-87 Chapter 1
Annual Reading

State	Sample Weight	Grade 2 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		5,143	34.8	23	36.1	25	1.3
ALASKA	1		226	31.8	19	33.5	21	1.7
ARIZONA	3		728	29.2	16	32.4	20	3.2
ARKANSAS	1		4,261	37.3	27	37.8	28	0.5
CALIFORNIA	1		29,286	35.5	24	36.6	26	1.1
COLORADO	1		159	32.4	20	38.3	29	5.9
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		775	44.0	38	48.0	46	4.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1	18,772	11,758	32.1	19	34.2	22	2.1
GEORGIA	1		6,172	34.4	23	38.1	28	3.7
HAWAII	1			0.0	0		0	
IDAHO	1		109	35.5	24	38.6	29	3.1
ILLINOIS	1	4,391	2,858	36.1	25	33.9	22	-2.2
INDIANA	1	5,169	3,639	40.5	32	41.7	34	1.2
IOWA	1			0.0	0		0	
KANSAS	1		1,240	30.7	18	34.9	23	4.2
KENTUCKY	1	2,571	2,155	37.7	28	42.2	35	4.5
LOUISIANA	1		5,789	33.3	21	36.6	26	3.3
MAINE	1		408	37.6	27	41.2	33	3.6
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		1,126	36.3	25	44.8	40	8.5
MICHIGAN	1	10,698	8,735	37.1	27	41.0	33	3.9
MINNESOTA	1	418	323	31.7	19	41.7	34	10.0
MISSISSIPPI	3	50	49	31.7	19	35.1	23	3.3
MISSOURI	1	760	614	34.4	23	45.5	41	11.1
MONTANA	1		229	39.8	31	44.8	40	5.0
NEBRASKA	1			0.0	0		0	
NEVADA	1	132	93	33.8	22	37.0	26	3.2
NEW HAMPSHIRE	1		393	34.2	22	41.2	33	7.0
NEW JERSEY	1		5,887	35.3	24	42.4	35	7.1
NEW MEXICO	1		722	34.6	23	35.5	24	1.0
NEW YORK	1		9,434	33.3	21	39.7	31	6.4
NORTH CAROLINA	3	2,581	2,358	30.4	17	36.1	25	5.7
NORTH DAKOTA	1	275	231	43.2	37	44.4	39	1.2
OHIO	3			0.0	0		0	
OKLAHOMA	1	1,787	1,412	30.9	18	37.5	27	6.6
OREGON	3		539	31.3	18	37.5	27	6.2
PENNSYLVANIA	1	2,656	2,144	36.2	25	43.5	37	7.3
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	2,457	2,193	35.4	24	37.3	27	1.9
SOUTH DAKOTA	1	1,425	1,152	44.3	39	45.7	41	1.4
TENNESSEE	3		1,270	38.8	29	39.0	30	0.2
TEXAS	1	38,072	23,385	35.0	23	37.0	26	2.0
UTAH	1		1,415	38.1	28	41.9	34	3.8
VERMONT	1		372	34.6	23	38.5	29	3.9
VIRGINIA	1	3,596	2,576	33.9	22	35.0	23	1.1
WASHINGTON	3		844	43.5	37	42.9	36	-0.6
WEST VIRGINIA	1		1,928	40.6	32	42.1	35	1.5
WISCONSIN	1		2,114	39.4	30	40.7	33	1.3
WYOMING	1		111	36.6	26	42.4	35	5.7
BIA	1	6	3	17.8	6	21.1	8	3.3
TOTAL (WEIGHTED)			160,537	35.1	24	37.9	28	2.8
NUMBER OF STATES REPORTING			44					

Table D.9 (Cont)

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Annual Reading

State	Sample Weight	Grade 3 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		5,463	32.7	20	35.8	25	3.1
ALASKA	1		259	31.8	19	29.6	16	-2.2
ARIZONA	3		681	27.4	14	29.1	16	1.7
ARKANSAS	1		3,665	34.3	22	34.8	23	0.5
CALIFORNIA	1		30,440	33.8	22	36.8	26	3.0
COLORADO	1		276	31.0	18	36.3	25	5.3
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		596	45.0	40	45.0	40	0.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1	18,728	13,031	30.7	18	34.1	22	3.4
GEORGIA	1		8,046	31.3	18	35.1	23	3.8
HAWAII	1			0.0	0		0	
IDAHO	1		128	31.9	19	35.7	24	3.7
ILLINOIS	1	4,498	3,529	33.3	21	33.8	22	0.5
INDIANA	1	5,120	3,787	39.1	30	40.9	33	1.8
IOWA	1			0.0	0		0	
KANSAS	1		1,125	31.5	19	35.1	24	3.6
KENTUCKY	1	2,916	2,319	35.1	24	46.2	42	11.1
LOUISIANA	1		5,396	32.3	20	35.8	25	3.5
MAINE	1		349	36.0	25	42.1	35	6.1
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		1,017	37.0	26	39.8	31	2.8
MICHIGAN	1	9,083	7,830	37.0	26	36.8	26	-0.2
MINNESOTA	1	281	242	33.7	22	41.1	33	7.4
MISSISSIPPI	3	283	263	38.3	29	38.4	29	0.1
MISSOURI	1	929	866	36.1	25	45.7	41	9.6
MONTANA	1		238	40.5	32	43.3	37	2.8
NEBRASKA	1			0.0	0		0	
NEVADA	1	102	77	31.1	18	33.9	22	2.8
NEW HAMPSHIRE	1		348	34.8	23	40.8	33	6.0
NEW JERSEY	1		6,375	36.2	25	42.8	36	6.6
NEW MEXICO	1		652	29.9	17	34.6	23	4.7
NEW YORK	1		10,701	32.6	20	37.4	27	4.8
NORTH CAROLINA	3	3,311	3,092	31.4	18	35.7	24	4.3
NORTH DAKOTA	1	265	230	44.3	39	43.8	38	-0.5
OHIO	3			0.0	0		0	
OKLAHOMA	1	1,858	1,489	30.1	17	34.0	22	3.9
OREGON	3		685	34.6	23	38.7	29	4.1
PENNSYLVANIA	1	2,138	1,778	38.1	28	43.3	37	5.2
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	2,716	2,489	34.2	22	36.6	26	2.4
SOUTH DAKOTA	1	1,071	934	41.9	35	42.9	36	1.0
TENNESSEE	3		1,528	35.0	23	38.0	28	3.0
TEXAS	1	37,577	26,481	32.8	20	36.1	25	3.3
UTAH	1		1,440	35.2	24	38.0	28	2.9
VERMONT	1		418	32.6	20	36.7	26	4.0
VIRGINIA	1	3,428	2,571	32.4	20	35.9	25	3.5
WASHINGTON	3		705	39.6	30	41.8	34	2.2
WEST VIRGINIA	1		1,796	35.6	24	38.2	28	2.6
WISCONSIN	1		1,911	37.1	27	39.1	30	2.0
WYOMING	1		81	40.0	31	43.3	37	3.3
BIA	1	5	4	23.6	10	19.4	7	-4.2
TOTAL (WEIGHTED)			171,646	33.5	21	36.8	26	3.3
NUMBER OF STATES REPORTING			44					

Table D.9 (Cont)

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Annual Reading

State	Sample Weight	Grade 4 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		4,017	31.1	18	35.9	25	4.8
ALASKA	1		156	30.0	17	28.5	15	-1.5
ARIZONA	3		407	31.5	18	35.7	24	4.2
ARKANSAS	1		3,383	34.3	22	39.2	30	4.9
CALIFORNIA	1		32,256	35.4	24	38.4	29	3.0
COLORADO	1		214	28.4	15	34.9	23	6.5
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		583	45.0	40	47.0	44	2.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1	18,342	13,162	32.2	19	34.4	23	2.2
GEORGIA	1		5,630	33.8	22	35.4	24	1.6
HAWAII	1			0.0	0		0	
IDAHO	1		115	35.6	24	39.4	30	3.8
ILLINOIS	1	6,077	4,846	33.1	21	32.2	19	-0.9
INDIANA	1	4,422	3,443	38.9	29	41.6	34	2.7
IOWA	1			0.0	0		0	
KANSAS	1		1,136	31.9	19	35.3	24	3.4
KENTUCKY	1	1,957	1,543	38.1	28	39.7	31	1.6
LOUISIANA	1		4,764	31.5	19	34.7	23	3.2
MAINE	1		364	39.5	30	40.5	32	1.0
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		1,176	40.9	33	40.4	32	-0.5
MICHIGAN	1	8,514	7,368	35.0	23	40.5	32	5.5
MINNESOTA	1	261	238	34.1	22	39.1	30	5.0
MISSISSIPPI	3	317	239	34.7	23	38.8	29	4.1
MISSOURI	1	805	806	35.0	23	44.1	39	9.1
MONTANA	1		229	34.9	23	38.8	29	3.9
NEBRASKA	1			0.0	0		0	
NEVADA	1	75	59	32.3	20	33.8	22	1.5
NEW HAMPSHIRE	1		267	36.8	26	40.8	33	4.0
NEW JERSEY	1		5,896	37.6	27	42.4	35	4.8
NEW MEXICO	1		494	35.6	24	38.4	29	2.8
NEW YORK	1		10,229	36.7	26	41.5	34	4.8
NORTH CAROLINA	3	5,556	4,981	33.8	22	37.6	27	3.8
NORTH DAKOTA	1	233	202	40.9	33	42.3	35	1.4
OHIO	3			0.0	0		0	
OKLAHOMA	1	1,816	1,474	30.8	18	35.1	24	4.3
OREGON	3		597	34.4	23	39.1	30	4.7
PENNSYLVANIA	1	1,966	1,685	37.4	27	40.9	33	3.5
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	3,367	3,070	34.7	23	38.5	29	3.8
SOUTH DAKOTA	1	935	795	40.9	33	41.8	34	0.9
TENNESSEE	3		982	35.6	24	38.8	29	3.2
TEXAS	1	34,902	25,166	32.3	20	36.3	25	4.0
UTAH	1		1,095	33.8	22	37.7	28	4.0
VERMONT	1		334	32.7	20	38.2	28	5.5
VIRGINIA	1	3,695	2,724	34.9	23	36.9	26	2.0
WASHINGTON	3		445	37.6	27	41.9	35	4.3
WEST VIRGINIA	1		1,403	35.2	24	39.8	31	4.6
WISCONSIN	1		2,822	33.8	22	38.5	29	4.7
WYOMING	1		86	36.3	25	40.2	32	3.9
BIA	1	5	5	21.5	8	21.3	8	-0.2
TOTAL (WEIGHTED)			168,241	34.3	22	37.8	28	3.5
NUMBER OF STATES REPORTING			44					

Table D.9 (Cont)

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Annual Reading

State	Sample Weight	Grade 5 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		3,703	34.1	22	35.0	23	0.9
ALASKA	1		169	28.0	14	27.5	14	-0.5
ARIZONA	3		344	27.4	14	32.5	20	5.2
ARKANSAS	1		3,272	36.0	25	36.5	26	0.5
CALIFORNIA	1		30,840	36.7	26	38.1	28	1.4
COLORADO	1		189	31.4	18	34.5	23	3.1
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		402	42.0	35	41.0	33	-1.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1	11,099	8,089	32.0	19	34.5	23	2.5
GEORGIA	1		7,364	31.7	19	34.8	23	3.1
HAWAII	1			0.0	0		0	
IDAHO	1		102	35.8	24	38.0	28	2.3
ILLINOIS	1	6,061	4,633	31.6	19	33.3	21	1.7
INDIANA	1	3,757	2,939	38.6	29	39.7	31	1.1
IOWA	1			0.0	0		0	
KANSAS	1		957	31.1	18	34.8	23	3.7
KENTUCKY	1	2,116	1,715	36.4	25	37.5	27	1.1
LOUISIANA	1		4,087	31.8	19	37.1	27	5.3
MAINE	1		375	39.3	30	42.3	35	3.0
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		1,190	34.7	23	41.3	34	6.6
MICHIGAN	1	6,569	5,832	37.5	27	38.7	29	1.2
MINNESOTA	1	176	153	33.8	22	37.2	27	3.4
MISSISSIPPI	3	362	307	36.8	26	38.1	28	1.3
MISSOURI	1	622	634	35.2	24	44.8	40	9.6
MONTANA	1		166	37.6	27	42.3	35	4.7
NEBRASKA	1			0.0	0		0	
NEVADA	1	78	65	32.7	20	35.6	24	2.9
NEW HAMPSHIRE	1		242	38.0	28	38.6	29	0.6
NEW JERSEY	1		6,614	38.5	29	41.7	34	3.2
NEW MEXICO	1		369	35.7	24	36.1	25	0.4
NEW YORK	1		7,939	38.2	28	43.2	37	5.0
NORTH CAROLINA	3	4,326	3,947	34.1	22	36.7	26	2.6
NORTH DAKOTA	1	235	204	39.1	30	40.3	32	1.2
OHIO	3			0.0	0		0	
OKLAHOMA	1	1,597	1,307	30.1	17	35.1	24	5.0
OREGON	3		454	33.4	21	37.0	26	3.6
PENNSYLVANIA	1	2,111	1,848	36.3	25	40.4	32	4.1
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	2,553	2,324	34.2	22	35.3	24	1.1
SOUTH DAKOTA	1	784	696	39.0	30	40.6	32	1.6
TENNESSEE	3		1,181	34.2	22	37.4	27	3.2
TEXAS	1	32,418	23,209	32.3	20	35.6	24	3.3
UTAH	1		891	33.2	21	35.0	23	1.8
VERMONT	1		280	33.8	22	38.1	28	4.2
VIRGINIA	1	3,257	2,420	34.5	23	40.4	32	5.9
WASHINGTON	3		443	38.0	28	40.4	32	2.4
WEST VIRGINIA	1		1,116	36.3	25	37.4	27	1.1
WISCONSIN	1		1,164	36.0	25	38.4	29	2.4
WYOMING	1		56	35.3	24	39.3	30	4.0
BIA	1	10	8	18.5	6	22.4	9	3.9
TOTAL (WEIGHTED)			148,932	34.8	23	37.3	27	2.5
NUMBER OF STATES REPORTING			44					

Table D.9 (Cont)

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Annual Reading

State	Sample Weight	Grade 6 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		3,472	32.5	20	35.5	24	3.0
ALASKA	1		145	26.3	13	29.1	15	2.8
ARIZONA	3		284	30.4	17	30.2	17	-0.3
ARKANSAS	1		2,770	33.8	22	37.4	27	3.6
CALIFORNIA	1		23,498	36.1	25	39.6	31	3.5
COLORADO	1		145	32.3	20	34.0	22	1.7
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		303	38.0	28	40.0	31	2.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1	8,322	5,695	32.1	19	34.8	23	2.7
GEORGIA	1		6,334	31.8	19	32.8	20	1.0
HAWAII	1			0.0	0		0	
IDAHO	1		74	34.8	23	38.0	28	3.2
ILLINOIS	1	6,088	4,638	32.0	19	33.4	21	1.4
INDIANA	1	3,027	2,419	36.3	25	40.0	31	3.7
IOWA	1			0.0	0		0	
KANSAS	1		1,079	32.6	20	34.3	22	1.7
KENTUCKY	1	1,952	1,719	34.0	22	42.5	36	8.5
LOUISIANA	1		3,500	32.8	20	35.8	25	3.0
MAINE	1		357	38.4	29	39.3	30	0.9
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		804	32.6	20	38.4	29	5.8
MICHIGAN	1	5,372	4,628	35.6	24	36.0	25	0.3
MINNESOTA	1	127	106	35.0	23	39.2	30	4.2
MISSISSIPPI	3	291	262	32.7	20	35.8	25	3.1
MISSOURI	1	741	697	34.8	23	40.7	33	5.9
MONTANA	1		147	35.5	24	38.2	28	2.7
NEBRASKA	1			0.0	0		0	
NEVADA	1	48	33	35.0	23	39.7	31	4.7
NEW HAMPSHIRE	1		121	35.6	24	37.9	28	2.3
NEW JERSEY	1		5,878	37.8	28	42.9	36	5.1
NEW MEXICO	1		179	33.1	21	38.8	29	5.8
NEW YORK	1		6,776	38.2	28	41.2	33	3.0
NORTH CAROLINA	3	3,823	3,545	31.9	19	36.5	25	4.6
NORTH DAKOTA	1	146	136	36.8	26	40.6	32	3.8
OHIO	3			0.0	0		0	
OKLAHOMA	1	1,308	1,090	30.6	17	36.1	25	5.5
OREGON	3		376	31.7	19	36.5	26	4.8
PENNSYLVANIA	1	1,806	1,611	35.5	24	39.2	30	3.7
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	1,943	1,806	33.8	22	36.1	25	2.3
SOUTH DAKOTA	1	652	586	36.6	26	40.0	31	3.4
TENNESSEE	3		1,018	35.2	24	36.0	25	0.8
TEXAS	1	20,080	14,473	31.8	19	34.9	23	3.1
UTAH	1		500	31.1	18	34.6	23	3.5
VERMONT	1		247	34.3	22	38.0	28	3.7
VIRGINIA	1	2,784	1,924	34.9	23	35.1	24	0.2
WASHINGTON	3		236	36.7	26	38.0	28	1.3
WEST VIRGINIA	1		878	35.2	24	37.6	27	2.4
WISCONSIN	1		948	34.4	23	36.2	25	1.8
WYOMING	1		52	34.9	23	37.7	27	2.8
BIA	1	6	6	17.4	6	17.3	6	-0.1
TOTAL (WEIGHTED)			118,373	34.1	22	37.2	27	3.1
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Table D.9 (Cont)

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State	Sample Weight	Grade 7 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		903	30.8	18	32.7	20	1.9
ALASKA	1		92	33.1	21	39.6	31	6.5
ARIZONA	3		315	27.0	13	29.9	17	3.0
ARKANSAS	1		1,912	33.0	21	33.6	21	0.6
CALIFORNIA	1		22,145	36.7	26	38.0	28	1.3
COLORADO	1		71	29.1	15	32.9	20	3.8
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		51	36.0	25	39.0	30	3.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1	1,738	1,291	25.6	12	30.2	17	4.7
GEORGIA	1		4,808	31.3	18	34.2	22	2.9
HAWAII	1			0.0	0		0	
IDAHO	1		54	32.1	19	34.6	23	2.5
ILLINOIS	1	5,107	4,021	30.8	18	35.3	24	4.5
INDIANA	1	1,822	1,422	35.7	24	35.7	24	0.0
IOWA	1			0.0	0		0	
KANSAS	1		643	32.6	20	37.2	27	4.6
KENTUCKY	1	1,578	1,286	34.9	23	37.8	28	2.9
LOUISIANA	1		1,274	31.8	19	35.4	24	3.6
MAINE	1		197	33.9	22	39.6	31	5.7
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		965	36.2	25	36.9	26	0.7
MICHIGAN	1	4,958	4,170	36.4	25	41.0	33	4.6
MINNESOTA	1	30	20	37.7	27	38.8	29	1.1
MISSISSIPPI	3	112	105	30.9	18	31.1	18	0.2
MISSOURI	1	549	517	34.4	23	41.4	34	7.0
MONTANA	1		208	35.6	24	39.1	30	3.5
NEBRASKA	1			0.0	0		0	
NEVADA	1	40	27	32.7	20	36.2	25	3.5
NEW HAMPSHIRE	1		195	34.7	23	36.8	26	2.1
NEW JERSEY	1		5,032	38.7	29	42.3	35	3.6
NEW MEXICO	1		83	30.5	17	33.8	22	3.4
NEW YORK	1		7,515	37.9	28	40.9	33	3.0
NORTH CAROLINA	3	4,092	3,738	34.0	22	36.1	25	2.1
NORTH DAKOTA	1	106	89	34.4	23	34.2	22	-0.2
OHIO	3			0.0	0		0	
OKLAHOMA	1	907	751	28.0	14	32.6	20	4.6
OREGON	3		245	32.6	20	37.2	27	4.6
PENNSYLVANIA	1	1,307	1,077	32.5	20	36.6	26	4.1
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	1,871	1,685	31.6	19	33.4	21	1.8
SOUTH DAKOTA	1	455	411	36.5	26	37.1	27	0.6
TENNESSEE	3		281	31.7	19	36.0	25	4.3
TEXAS	1	13,684	10,063	31.2	18	34.3	22	3.1
UTAH	1		473	30.5	17	31.8	19	1.3
VERMONT	1		155	33.8	22	35.7	24	1.9
VIRGINIA	1	2,941	1,951	37.3	27	38.8	29	1.5
WASHINGTON	3		53	31.8	19	34.3	22	2.5
WEST VIRGINIA	1		473	34.3	22	35.4	24	1.1
WISCONSIN	1		374	37.7	28	38.0	28	0.3
WYOMING	1		27	36.9	26	42.5	36	5.6
BIA	1	7	6	21.9	9	22.5	9	0.6
TOTAL (WEIGHTED)			90,989	34.4	23	36.9	26	2.5
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State	Sample Weight	Grade 8 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		731	29.9	17	36.1	25	6.2
ALASKA	1		40	27.4	14	26.1	12	-1.3
ARIZONA	3		264	27.3	14	29.6	16	2.3
ARKANSAS	1		1,609	30.8	18	33.1	21	2.3
CALIFORNIA	1		18,024	36.4	25	37.5	27	1.1
COLORADO	1		42	29.6	16	32.5	20	2.9
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		38	34.0	22	35.0	23	1.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1	1,265	977	23.8	10	28.8	15	5.0
GEORGIA	1		5,604	30.0	17	31.9	19	1.8
HAWAII	1			0.0	0		0	
IDAHO	1		20	36.1	25	30.2	17	-5.9
ILLINOIS	1	3,958	3,320	32.2	19	35.3	24	3.1
INDIANA	1	1,936	1,561	33.4	21	37.2	27	3.8
IOWA	1			0.0	0		0	
KANSAS	1		565	35.0	23	35.4	24	0.4
KENTUCKY	1	1,581	1,303	31.1	18	38.4	29	7.3
LOUISIANA	1		1,020	35.8	25	38.3	29	2.5
MAINE	1		169	37.7	28	39.7	31	1.9
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		809	32.3	20	35.5	24	3.2
MICHIGAN	1	3,540	3,056	38.6	29	32.4	20	-6.2
MINNESOTA	1	21	10	35.8	25	42.3	35	6.5
MISSISSIPPI	3	92	90	27.7	14	28.2	15	0.5
MISSOURI	1	550	437	31.0	18	39.0	30	8.0
MONTANA	1		135	38.5	29	40.6	32	2.1
NEBRASKA	1			0.0	0		0	
NEVADA	1	24	19	31.6	19	32.1	19	0.5
NEW HAMPSHIRE	1		170	34.1	22	35.1	24	1.0
NEW JERSEY	1		4,876	37.7	27	40.9	33	3.2
NEW MEXICO	1		66	31.5	18	33.1	21	1.6
NEW YORK	1		6,068	37.7	28	40.6	32	2.9
NORTH CAROLINA	3	3,341	3,015	33.6	21	36.4	25	2.8
NORTH DAKOTA	1	79	65	31.9	19	36.7	26	4.8
OHIO	3			0.0	0		0	
OKLAHOMA	1	913	759	28.9	15	34.1	22	5.3
OREGON	3		210	24.8	11	31.0	18	6.2
PENNSYLVANIA	1	1,087	925	31.4	18	36.3	25	4.9
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	1,616	1,443	31.5	19	32.9	20	1.4
SOUTH DAKOTA	1	360	329	33.6	21	37.6	27	4.0
TENNESSEE	3		293	36.8	26	40.6	32	3.8
TEXAS	1	12,512	8,775	31.2	18	32.7	20	1.5
UTAH	1		347	28.0	14	30.7	17	2.7
VERMONT	1		150	33.3	21	35.7	24	2.4
VIRGINIA	1	1,068	492	40.7	33	42.1	35	1.4
WASHINGTON	3		46	31.5	18	37.3	27	5.8
WEST VIRGINIA	1		321	33.3	21	35.9	25	2.6
WISCONSIN	1		420	35.3	24	37.2	27	1.9
WYOMING	1		24	35.6	24	36.9	26	1.3
BIA	1	8	5	15.1	4	21.6	8	6.5
TOTAL (WEIGHTED)			76,623	33.9	22	36.0	25	2.1
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State	Sample Weight	Grade 9 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		298	32.2	19	28.4	15	-3.8
ALASKA	1		8	21.8	8	16.1	5	-5.6
ARIZONA	3		58	26.0	12	31.2	18	5.2
ARKANSAS	1		705	30.2	17	33.8	22	3.6
CALIFORNIA	1		7,790	36.2	25	36.1	25	-0.1
COLORADO	1		26	29.8	16	31.3	18	1.5
CONNECTICUT	1			0.0	0		0	
DELAWARE	1			0.0	0		0	
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		1,150	25.8	12	30.1	17	4.4
HAWAII	1			0.0	0		0	
IDAHO	1		1	47.9	46	27.2	14	-20.7
ILLINOIS	1			0.0	0		0	
INDIANA	1	1,128	824	34.9	23	31.4	18	-3.5
IOWA	1			0.0	0		0	
KANSAS	1		558	33.6	21	35.9	25	2.3
KENTUCKY	1	864	771	33.8	22	33.4	21	-0.4
LOUISIANA	1		665	32.0	19	34.3	22	2.3
MAINE	1		43	35.9	25	37.4	27	1.5
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		580	29.9	17	35.2	24	5.3
MICHIGAN	1	1,186	442	26.7	13	28.9	15	2.2
MINNESOTA	1	14	8	36.7	26	38.7	29	2.0
MISSISSIPPI	3	18	15	31.1	18	35.0	23	3.9
MISSOURI	1			0.0	0		0	
MONTANA	1		79	36.5	26	39.0	30	2.5
NEBRASKA	1			0.0	0		0	
NEVADA	1			0.0	0		0	
NEW HAMPSHIRE	1		30	31.1	18	34.6	23	3.5
NEW JERSEY	1		3,580	37.3	27	37.3	27	0.0
NEW MEXICO	1		20	29.2	16	29.9	16	0.7
NEW YORK	1		4,358	40.5	32	41.3	34	0.8
NORTH CAROLINA	3	1,301	1,250	30.1	17	34.4	22	4.3
NORTH DAKOTA	1	59	27	27.3	14	31.1	18	3.8
OHIO	3			0.0	0		0	
OKLAHOMA	1	88	69	26.8	13	29.1	16	2.3
OREGON	3		94	36.3	25	38.0	28	1.7
PENNSYLVANIA	1	907	661	30.9	18	37.1	27	6.2
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	728	606	25.3	12	23.2	10	-2.1
SOUTH DAKOTA	1	100	90	31.2	18	37.2	27	6.0
TENNESSEE	3		26	33.0	21	27.2	14	-5.8
TEXAS	1	3,583	2,358	30.4	17	32.9	20	2.5
UTAH	1		241	29.7	16	32.6	20	2.9
VERMONT	1		19	31.3	18	36.2	25	4.9
VIRGINIA	1	120	101	27.4	14	31.1	18	3.7
WASHINGTON	3		32	31.0	18	34.9	23	3.9
WEST VIRGINIA	1			0.0	0		0	
WISCONSIN	1		453	36.3	25	38.4	29	2.1
WYOMING	1		19	33.6	21	36.5	25	2.9
BIA	1	33	5	15.0	4	21.5	8	6.5
TOTAL (WEIGHTED)			31,256	34.1	22	35.5	24	1.4
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Table D.9 (Cont)

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Annual Reading

State	Sample Weight	Grade 10 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		120	37.2	27	32.5	20	-4.7
ALASKA	1		14	35.7	24	34.8	23	-0.9
ARIZONA	3		69	25.2	11	32.8	20	7.7
ARKANSAS	1		176	30.2	17	29.0	15	-1.2
CALIFORNIA	1		8,611	35.3	24	34.8	23	-0.5
COLORADO	1		20	27.5	14	31.2	18	3.7
CONNECTICUT	1			0.0	0		0	
DELAWARE	1			0.0	0		0	
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		327	24.1	10	28.8	15	4.7
HAWAII	1			0.0	0		0	
IDAHO	1			0.0	0		0	
ILLINOIS	1			0.0	0		0	
INDIANA	1	555	334	28.5	15	35.0	23	6.5
IOWA	1			0.0	0		0	
KANSAS	1		154	26.3	12	27.4	14	1.1
KENTUCKY	1	392	345	31.6	19	34.1	22	2.5
LOUISIANA	1		307	30.9	18	33.1	21	2.2
MAINE	1		10	35.7	24	41.8	34	6.1
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		250	28.5	15	31.3	18	2.8
MICHIGAN	1	259	160	27.1	13	31.4	18	4.2
MINNESOTA	1			0.0	0		0	
MISSISSIPPI	3	12	10	31.9	19	30.0	17	-1.9
MISSOURI	1			0.0	0		0	
MONTANA	1		51	38.2	28	39.1	30	0.9
NEBRASKA	1			0.0	0		0	
NEVADA	1			0.0	0		0	
NEW HAMPSHIRE	1		16	39.9	31	42.0	35	2.1
NEW JERSEY	1		3,186	32.1	19	33.4	21	1.3
NEW MEXICO	1		3	28.7	15	30.3	17	1.7
NEW YORK	1		3,353	43.5	37	43.7	38	0.2
NORTH CAROLINA	3	263	251	26.9	13	38.1	28	11.2
NORTH DAKOTA	1	30	4	22.7	9	37.0	26	14.3
OHIO	3			0.0	0		0	
OKLAHOMA	1	72	62	26.5	13	26.7	13	0.2
OREGON	3		99	35.0	23	33.8	22	-1.2
PENNSYLVANIA	1	569	370	31.5	19	36.1	25	4.6
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	771	676	20.8	8	22.1	9	1.3
SOUTH DAKOTA	1	40	32	26.7	13	33.4	21	6.7
TENNESSEE	3		1	52.6	55	40.1	32	8.5
TEXAS	1	2,219	1,500	30.4	17	32.2	19	1.8
UTAH	1		177	26.9	13	29.7	16	2.8
VERMONT	1		19	29.4	16	31.1	18	1.7
VIRGINIA	1	18	14	24.0	10	21.6	8	-2.4
WASHINGTON	3		24	34.7	23	29.5	16	-5.2
WEST VIRGINIA	1			0.0	0		0	
WISCONSIN	1		303	33.6	21	36.1	25	2.5
WYOMING	1		12	31.1	18	30.0	17	-1.1
BIA	1	24	12	20.2	7	23.6	10	3.4
TOTAL (WEIGHTED)			22,098	34.1	22	35.1	24	1.0
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State	Sample Weight	Grade 11 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		11	18.9	7	24.2	11	5.3
ALASKA	1		7	36.6	26	35.6	24	-1.0
ARIZONA	3		24	28.3	15	29.3	16	1.0
ARKANSAS	1		96	26.1	12	24.1	10	-2.0
CALIFORNIA	1		6,378	35.0	23	35.6	24	0.6
COLORADO	1		13	26.9	13	32.2	19	5.3
CONNECTICUT	1			0.0	0		0	
DELAWARE	1			0.0	0		0	
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		95	30.0	17	27.6	14	-2.4
HAWAII	1			0.0	0		0	
IDAHO	1			0.0	0		0	
ILLINOIS	1			0.0	0		0	
INDIANA	1	185	117	30.5	17	33.3	21	2.8
IOWA	1			0.0	0		0	
KANSAS	1		67	25.8	12	28.0	14	2.2
KENTUCKY	1	234	190	29.8	16	34.3	22	4.5
LOUISIANA	1		145	25.5	12	30.3	17	4.8
MAINE	1			0.0	0		0	
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		128	24.2	11	23.1	10	-1.1
MICHIGAN	1	92	48	24.3	11	29.1	16	4.8
MINNESOTA	1			0.0	0		0	
MISSISSIPPI	3	22	18	35.4	24	25.0	11	-10.4
MISSOURI	1	40	36	20.2	7	24.5	11	4.3
MONTANA	1		44	34.8	23	35.4	24	0.6
NEBRASKA	1			0.0	0		0	
NEVADA	1			0.0	0		0	
NEW HAMPSHIRE	1		11	36.0	25	41.7	34	5.7
NEW JERSEY	1		1,423	27.2	14	30.6	17	3.4
NEW MEXICO	1			0.0	0		0	
NEW YORK	1		589	32.0	19	34.4	23	2.4
NORTH CAROLINA	3	233	225	33.1	21	41.1	33	8.0
NORTH DAKOTA	1	29	6	34.8	23	43.6	37	8.8
OHIO	3			0.0	0		0	
OKLAHOMA	1	55	47	25.1	11	27.9	14	2.8
OREGON	3		54	38.0	28	37.3	27	-0.7
PENNSYLVANIA	1	575	339	30.7	18	35.9	25	5.2
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	232	201	16.7	5	20.6	8	3.9
SOUTH DAKOTA	1			0.0	0		0	
TENNESSEE	3		12	20.4	8	15.4	5	-5.0
TEXAS	1	1,347	866	29.1	16	31.1	18	2.0
UTAH	1		123	26.4	13	28.2	15	1.8
VERMONT	1		10	32.0	19	31.0	18	-1.0
VIRGINIA	1	17	15	30.9	18	31.2	18	0.3
WASHINGTON	3			0.0	0		0	
WEST VIRGINIA	1			0.0	0		0	
WISCONSIN	1		75	33.1	21	39.6	31	6.5
WYOMING	1			0.0	0		0	
BIA	1	21	15	17.3	6	21.0	8	3.7
TOTAL (WEIGHTED)			12,081	32.2	19	34.0	22	1.8
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State	Sample Weight	Grade 12 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		1	1.0	1	1.0	1	0.0
ALASKA	1		5	51.4	52	33.8	22	-17.6
ARIZONA	3		4	29.2	16	27.7	14	-1.5
ARKANSAS	1		46	22.2	9	20.6	8	-1.6
CALIFORNIA	1		2,598	35.1	24	34.6	23	-0.5
COLORADO	1		2	36.5	26	36.0	25	-0.5
CONNECTICUT	1			0.0	0		0	
DELAWARE	1			0.0	0		0	
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1			0.0	0		0	
HAWAII	1			0.0	0		0	
IDAHO	1			0.0	0		0	
ILLINOIS	1			0.0	0		0	
INDIANA	1	58	39	22.6	9	22.6	9	0.0
IOWA	1			0.0	0		0	
KANSAS	1		33	27.5	14	32.7	20	5.2
KENTUCKY	1	184	172	27.7	14	25.3	12	-2.4
LOUISIANA	1		70	21.8	9	22.7	9	0.9
MAINE	1			0.0	0		0	
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		98	20.5	8	26.5	13	6.0
MICHIGAN	1	39	23	29.4	16	32.7	20	3.4
MINNESOTA	1			0.0	0		0	
MISSISSIPPI	3			0.0	0		0	
MISSOURI	1	19	19	23.7	10	27.7	14	4.0
MONTANA	1		17	32.0	19	34.3	22	2.3
NEBRASKA	1			0.0	0		0	
NEVADA	1			0.0	0		0	
NEW HAMPSHIRE	1		4	33.3	21	34.8	23	1.5
NEW JERSEY	1		1,000	25.6	12	27.0	13	1.4
NEW MEXICO	1			0.0	0		0	
NEW YORK	1		209	30.8	18	33.2	21	2.4
NORTH CAROLINA	3	180	172	24.9	11	34.6	23	9.7
NORTH DAKOTA	1	28	2	24.7	11	36.7	26	12.0
OHIO	3			0.0	0		0	
OKLAHOMA	1	46	38	21.6	8	21.1	8	-0.5
OREGON	3		47	31.4	18	32.6	20	1.2
PENNSYLVANIA	1	401	291	30.6	17	34.3	22	3.7
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	367	344	18.9	7	18.7	6	-0.2
SOUTH DAKOTA	1			0.0	0		0	
TENNESSEE	3			0.0	0		0	
TEXAS	1	861	455	27.6	14	29.9	17	2.3
UTAH	1		103	24.7	11	30.6	17	5.8
VERMONT	1			0.0	0		0	
VIRGINIA	1			0.0	0		0	
WASHINGTON	3			0.0	0		0	
WEST VIRGINIA	1			0.0	0		0	
WISCONSIN	1		23	32.8	20	38.3	29	5.5
WYOMING	1			0.0	0		0	
BIA	1	13	11	19.4	7	26.2	12	6.8
TOTAL (WEIGHTED)			6,273	29.7	16	31.2	18	1.5
NUMBER OF STATES REPORTING			27					

Table D.10

Reading Achievement Information for Chapter 1 Participants Tested on a Fall-Spring Schedule, by Grade and State -- 1986-87

1986-87 Chapter 1
Fall-Spring Reading

State	Sample Weight	Grade 2 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		1,398	36.1	25	39.5	30	3.4
ALASKA	1		315	29.9	16	44.6	39	14.7
ARIZONA	3		217	29.5	16	38.7	29	9.2
ARKANSAS	1		1,725	34.6	23	43.8	38	9.2
CALIFORNIA	1		6,640	30.1	17	40.8	33	10.7
COLORADO	1		2,765	29.3	16	40.4	32	11.1
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		213	40.0	31	50.0	50	10.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		5,244	32.8	20	37.7	28	4.9
HAWAII	1		995	19.1	7	34.0	22	14.9
IDAHO	1		1,051	34.1	22	44.5	39	10.4
ILLINOIS	1	9,961	9,115	35.2	24	43.1	37	7.9
INDIANA	1	7,387	6,219	36.3	25	44.4	39	8.1
IOWA	1	6,508	5,281	39.1	30	47.2	44	8.1
KANSAS	1		2,137	33.5	21	46.2	42	12.7
KENTUCKY	1	9,149	7,410	32.7	20	42.7	36	10.0
LOUISIANA	1		6,478	28.7	15	37.0	26	8.3
MAINE	1		1,386	40.4	32	45.8	42	5.4
MARYLAND	1		5,928	33.3	21	38.2	28	4.9
MASSACHUSETTS	1		3,617	35.2	24	45.5	41	10.3
MICHIGAN	1	3,816	3,099	30.0	17	40.9	33	10.9
MINNESOTA	1	7,962	6,519	28.9	15	42.6	36	13.7
MISSISSIPPI	3	865	738	29.3	16	35.7	24	6.3
MISSOURI	1	7,878	6,554	36.2	25	45.3	41	9.1
MONTANA	1		483	34.5	23	44.2	39	9.7
NEBRASKA	1		2,533	36.8	26	45.2	40	8.3
NEVADA	1	516	358	27.0	13	38.7	29	11.7
NEW HAMPSHIRE	1		920	30.3	17	44.0	38	13.7
NEW JERSEY	1		4,775	31.8	19	41.2	33	9.4
NEW MEXICO	1		594	29.6	16	37.4	27	7.8
NEW YORK	1		8,500	28.4	15	42.4	35	14.0
NORTH CAROLINA	3	972	858	29.3	16	36.3	25	6.9
NORTH DAKOTA	1	937	811	40.0	31	47.3	44	7.3
OHIO	3		5,948	35.1	24	43.1	37	8.0
OKLAHOMA	1	5,014	3,803	33.5	21	41.6	34	8.1
OREGON	3		1,389	29.1	15	39.3	30	10.2
PENNSYLVANIA	1	15,346	14,268	33.5	21	45.4	41	11.9
RHODE ISLAND	1		995	28.0	14	40.1	32	12.1
SOUTH CAROLINA	1			0.0	0		0	
SOUTH DAKOTA	1	36	32	42.5	36	48.8	46	6.3
TENNESSEE	3		1,490	31.6	19	43.9	38	12.3
TEXAS	1			0.0	0		0	
UTAH	1		657	31.9	19	39.5	30	7.7
VERMONT	1		495	27.8	14	42.1	35	14.3
VIRGINIA	1	8,488	7,436	32.7	20	41.6	34	8.9
WASHINGTON	3		1,295	31.6	19	44.6	39	13.0
WEST VIRGINIA	1		2,129	30.2	17	40.7	33	10.5
WISCONSIN	1		2,078	25.4	12	35.6	24	10.2
WYOMING	1		438	32.5	20	46.4	43	13.9
BIA	1	1,197	956	27.3	14	27.5	14	0.2
TOTAL (WEIGHTED)			173,553	32.7	20	42.2	35	9.5
NUMBER OF STATES REPORTING			47					

Table D.10 (Cont)

1986-87 Chapter 1
Fall-Spring Reading

State	Sample Weight	Grade 3 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		1,201	33.2	21	37.7	28	4.5
ALASKA	1		163	31.7	19	37.6	27	5.9
ARIZONA	3		295	30.1	17	47.1	44	17.0
ARKANSAS	1		1,244	33.7	22	42.2	35	8.5
CALIFORNIA	1		5,588	31.2	18	40.8	33	9.6
COLORADO	1		1,820	28.6	15	38.8	29	10.2
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		175	32.0	19	44.0	38	12.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		3,752	31.9	19	37.2	27	5.4
HAWAII	1		1,169	26.0	12	37.7	28	11.7
IDAHO	1		735	32.5	20	41.1	33	8.6
ILLINOIS	1	8,214	7,522	34.6	23	41.1	33	6.5
INDIANA	1	6,059	5,092	34.2	22	41.4	34	7.2
IOWA	1	4,668	3,817	39.5	30	45.5	41	6.0
KANSAS	1		1,811	33.6	21	42.9	36	9.3
KENTUCKY	1	9,698	8,168	32.1	19	41.2	33	9.1
LOUISIANA	1		5,667	29.2	16	35.7	24	6.5
MAINE	1		1,160	35.7	24	42.8	36	7.1
MARYLAND	1		5,854	35.7	24	36.6	26	0.9
MASSACHUSETTS	1		3,018	34.7	23	43.7	38	9.0
MICHIGAN	1	2,424	2,078	31.8	19	41.0	33	9.2
MINNESOTA	1	5,549	4,685	30.3	17	40.5	32	10.2
MISSISSIPPI	3	2,687	2,337	26.5	13	35.1	24	8.7
MISSOURI	1	7,186	6,169	34.9	23	41.8	34	6.9
MONTANA	1		352	33.1	21	42.1	35	9.0
NEBRASKA	1		2,077	37.5	27	44.5	39	7.0
NEVADA	1	347	284	30.9	18	39.4	30	8.5
NEW HAMPSHIRE	1		594	31.2	18	45.0	40	13.8
NEW JERSEY	1		5,082	30.8	18	42.0	35	11.2
NEW MEXICO	1		652	29.6	16	38.6	29	9.0
NEW YORK	1		6,205	32.3	20	42.8	36	10.5
NORTH CAROLINA	3	1,237	1,132	27.9	14	35.6	24	7.7
NORTH DAKOTA	1	821	760	37.7	27	45.5	41	7.8
OHIO	3		4,598	33.1	21	41.1	33	8.0
OKLAHOMA	1	4,236	3,263	33.5	21	40.1	32	6.6
OREGON	3		1,074	31.9	19	41.0	33	9.1
PENNSYLVANIA	1	12,112	11,368	33.8	22	43.0	37	9.2
RHODE ISLAND	1		800	28.4	15	35.8	25	7.4
SOUTH CAROLINA	1			0.0	0		0	
SOUTH DAKOTA	1	76	67	33.4	21	42.4	35	9.0
TENNESSEE	3		1,415	32.6	20	40.9	33	8.3
TEXAS	1			0.0	0		0	
UTAH	1		394	28.6	15	35.5	24	6.9
VERMONT	1		395	31.5	19	41.2	33	9.6
VIRGINIA	1	6,844	5,919	33.9	22	41.0	33	7.1
WASHINGTON	3		1,132	32.0	19	42.5	36	10.5
WEST VIRGINIA	1		1,793	28.7	15	36.7	26	8.0
WISCONSIN	1		1,537	35.6	24	44.8	40	9.2
WYOMING	1		319	32.7	20	44.7	39	12.0
BIA	1	1,114	906	21.0	8	26.5	13	5.5
TOTAL (WEIGHTED)			150,805	32.5	20	40.5	32	8.0
NUMBER OF STATES REPORTING			47					

Table D.10 (Cont)

1986-87 Chapter 1
Fall-Spring Reading

State	Sample Weight	Grade 4 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		1,389	32.5	20	37.2	27	4.7
ALASKA	1		145	28.1	14	37.0	26	9.0
ARIZONA	3		249	29.8	16	40.6	32	10.9
ARKANSAS	1		1,060	31.8	19	39.2	30	7.4
CALIFORNIA	1		5,358	31.7	19	40.5	32	8.8
COLORADO	1		1,547	30.9	18	38.2	28	7.3
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		132	33.0	21	41.0	33	8.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		4,364	34.3	22	36.4	25	2.2
HAWAII	1		1,102	27.5	14	34.5	23	7.0
IDAHO	1		632	33.0	20	40.6	32	7.6
ILLINOIS	1	6,465	5,918	34.4	23	40.3	32	5.9
INDIANA	1	5,113	4,336	36.3	25	42.4	35	6.1
IOWA	1	4,066	3,333	40.5	32	46.6	43	6.1
KANSAS	1		1,664	34.7	23	43.2	37	8.5
KENTUCKY	1	6,840	5,662	30.8	18	39.4	30	8.6
LOUISIANA	1		4,875	30.5	17	35.2	24	4.7
MAINE	1		968	36.7	26	42.8	36	6.1
MARYLAND	1		4,308	35.6	24	39.4	30	3.8
MASSACHUSETTS	1		2,514	35.6	24	42.4	35	6.8
MICHIGAN	1	1,776	1,438	32.2	19	40.5	32	8.3
MINNESOTA	1	3,496	2,961	31.2	18	39.2	30	8.0
MISSISSIPPI	3	3,827	3,181	27.7	14	35.7	24	8.0
MISSOURI	1	5,496	4,759	34.4	23	41.3	34	6.9
MONTANA	1		351	35.0	23	42.1	35	7.1
NEBRASKA	1		1,743	38.3	29	44.4	39	6.1
NEVADA	1	391	276	33.5	21	40.9	33	7.4
NEW HAMPSHIRE	1		470	34.9	23	43.1	37	8.2
NEW JERSEY	1		4,230	31.7	19	40.4	32	8.7
NEW MEXICO	1		580	28.7	15	37.5	27	8.8
NEW YORK	1		5,876	32.5	20	42.1	35	9.6
NORTH CAROLINA	3	1,257	1,098	28.3	15	36.9	26	8.6
NORTH DAKOTA	1	645	581	40.6	32	47.0	44	6.4
OHIO	3		3,001	34.5	23	42.5	36	8.0
OKLAHOMA	1	4,121	3,231	33.1	21	39.8	31	6.7
OREGON	3		723	32.2	19	39.2	30	7.0
PENNSYLVANIA	1	10,419	9,749	33.6	21	42.4	35	8.8
RHODE ISLAND	1		778	31.1	18	40.5	32	9.4
SOUTH CAROLINA	1			0.0	0		0	
SOUTH DAKOTA	1	50	45	32.9	20	36.9	26	4.0
TENNESSEE	3		1,451	35.5	24	42.8	36	7.3
TEXAS	1			0.0	0		0	
UTAH	1		415	27.4	14	37.9	28	10.5
VERMONT	1		303	34.7	23	43.1	37	8.3
VIRGINIA	1	5,050	4,501	32.3	20	38.8	29	6.5
WASHINGTON	3		801	33.3	21	42.3	35	9.0
WEST VIRGINIA	1		1,577	30.9	18	38.0	28	7.1
WISCONSIN	1		998	37.2	27	43.5	37	6.3
WYOMING	1		256	35.6	24	44.4	39	8.8
BIA	1	952	779	23.2	10	26.2	12	3.0
TOTAL (WEIGHTED)			128,105	32.9	20	40.1	32	7.2
NUMBER OF STATES REPORTING			47					

Table D.10 (Cont)

1986-87 Chapter 1
Fall-Spring Reading

State	Sample Weight	Grade 5 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		849	32.6	20	36.5	26	3.9
ALASKA	1		96	33.7	22	36.4	25	2.7
ARIZONA	3		366	30.8	18	41.4	34	10.6
ARKANSAS	1		958	31.9	19	38.8	29	6.9
CALIFORNIA	1		5,047	31.9	19	38.9	29	7.0
COLORADO	1		1,199	29.4	16	36.3	25	6.9
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		143	34.0	22	43.0	37	9.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		3,284	32.6	20	36.3	25	3.6
HAWAII	1		946	27.1	13	34.2	22	7.1
IDAHO	1		537	32.4	20	40.7	32	8.3
ILLINOIS	1	5,242	4,808	34.4	23	39.4	30	5.0
INDIANA	1	4,213	3,457	34.6	23	39.1	30	4.5
IOWA	1	2,992	2,493	41.2	33	46.5	43	5.3
KANSAS	1		1,243	33.8	22	42.2	35	8.4
KENTUCKY	1	8,385	7,065	32.8	20	39.3	30	6.5
LOUISIANA	1		4,891	29.1	16	35.2	24	6.1
MAINE	1		881	36.7	26	41.6	34	4.9
MARYLAND	1		2,427	36.9	26	40.6	32	3.7
MASSACHUSETTS	1		2,284	35.6	24	41.4	34	5.8
MICHIGAN	1	1,379	1,178	32.8	20	39.5	30	6.7
MINNESOTA	1	2,373	1,947	32.0	19	37.5	27	5.5
MISSISSIPPI	3	3,404	2,924	28.8	15	33.9	22	5.0
MISSOURI	1	4,070	3,551	34.5	23	41.0	33	6.5
MONTANA	1		303	36.1	25	42.0	35	5.9
NEBRASKA	1		1,575	38.0	28	43.1	37	5.1
NEVADA	1	449	311	32.1	19	38.2	28	6.1
NEW HAMPSHIRE	1		379	33.2	21	42.6	36	9.5
NEW JERSEY	1		4,069	32.5	20	38.6	29	6.1
NEW MEXICO	1		439	27.8	14	36.3	25	8.5
NEW YORK	1		5,193	33.7	22	41.2	33	7.5
NORTH CAROLINA	3	950	814	27.5	14	33.8	22	6.4
NORTH DAKOTA	1	539	487	39.2	30	45.5	41	6.4
OHIO	3		2,475	31.7	19	38.7	29	7.0
OKLAHOMA	1	3,219	2,672	32.4	20	38.6	29	6.1
OREGON	3		544	32.5	20	38.8	29	6.3
PENNSYLVANIA	1	8,971	8,464	33.9	22	41.5	34	7.6
RHODE ISLAND	1		665	29.3	16	36.1	25	6.8
SOUTH CAROLINA	1			0.0	0		0	
SOUTH DAKOTA	1	46	37	28.4	15	35.2	24	6.8
TENNESSEE	3		1,717	33.2	21	39.7	31	6.5
TEXAS	1			0.0	0		0	
UTAH	1		181	28.2	15	38.7	29	10.5
VERMONT	1		238	34.9	23	40.9	33	6.0
VIRGINIA	1	4,359	3,846	36.2	25	42.6	36	6.4
WASHINGTON	3		529	32.9	20	40.8	33	7.9
WEST VIRGINIA	1		1,247	28.9	15	35.2	24	6.3
WISCONSIN	1		854	35.9	25	41.3	34	5.4
WYOMING	1		167	35.5	24	43.2	37	7.6
BIA	1	882	653	23.8	10	26.8	13	3.0
TOTAL (WEIGHTED)			110,020	32.7	20	39.0	30	6.3
NUMBER OF STATES REPORTING			47					

Table D.10 (Cont)

1986-87 Chapter 1
Fall-Spring Reading

State	Sample Weight	Grade 6 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		788	33.7	22	38.7	29	5.0
ALASKA	1		98	32.5	20	35.9	25	3.4
ARIZONA	3		310	28.6	15	40.5	32	11.8
ARKANSAS	1		619	33.9	22	39.2	30	5.3
CALIFORNIA	1		3,745	31.2	18	38.9	29	7.7
COLORADO	1		1,070	29.5	16	34.5	23	5.0
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		50	32.0	19	35.0	23	3.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		3,779	30.7	17	34.8	23	4.2
HAWAII	1		835	29.9	17	38.2	28	8.3
IDAHO	1		401	31.5	19	38.2	28	6.7
ILLINOIS	1	4,185	3,902	34.1	22	39.4	30	5.3
INDIANA	1	3,250	2,774	33.6	21	38.1	28	4.5
IOWA	1	2,158	1,826	40.0	31	45.5	41	5.5
KANSAS	1		1,030	34.6	23	42.1	35	7.5
KENTUCKY	1	7,244	6,090	34.2	22	41.4	34	7.2
LOUISIANA	1		3,357	30.4	17	33.5	21	3.1
MAINE	1		699	36.9	26	41.1	33	4.2
MARYLAND	1		618	39.1	30	44.0	38	4.9
MASSACHUSETTS	1		1,925	35.6	24	41.2	33	5.6
MICHIGAN	1	943	807	31.7	19	37.6	27	5.8
MINNESOTA	1	1,730	1,441	31.6	19	36.4	25	4.8
MISSISSIPPI	3	2,894	2,436	27.2	14	35.7	24	8.5
MISSOURI	1	3,126	2,640	34.9	23	40.3	32	5.4
MONTANA	1		264	36.9	26	42.1	35	5.2
NEBRASKA	1		1,474	37.9	28	43.2	37	5.3
NEVADA	1	418	321	27.8	14	36.9	26	9.1
NEW HAMPSHIRE	1		268	31.5	19	41.0	33	9.5
NEW JERSEY	1		4,066	33.1	21	40.1	32	7.0
NEW MEXICO	1		621	30.9	18	38.8	29	7.9
NEW YORK	1		4,544	33.8	22	41.7	34	7.9
NORTH CAROLINA	3	388	327	29.6	16	36.3	25	6.7
NORTH DAKOTA	1	445	402	39.2	30	43.7	38	4.4
OHIO	3		1,854	30.9	18	38.9	29	8.0
OKLAHOMA	1	2,728	2,175	33.6	21	38.9	29	5.3
OREGON	3		401	31.6	19	37.4	27	5.8
PENNSYLVANIA	1	8,448	7,944	33.1	21	40.8	33	7.7
RHODE ISLAND	1		509	32.2	19	39.5	30	7.3
SOUTH CAROLINA	1			0.0	0		0	
SOUTH DAKOTA	1	25	23	41.8	34	46.5	43	4.7
TENNESSEE	3		1,379	36.9	26	42.7	36	5.8
TEXAS	1			0.0	0		0	
UTAH	1		164	25.0	11	38.0	28	13.0
VERMONT	1		206	33.0	20	40.6	32	7.7
VIRGINIA	1	2,937	2,632	35.8	25	40.3	32	4.5
WASHINGTON	3		464	34.1	22	41.2	33	7.1
WEST VIRGINIA	1		1,002	29.7	16	36.6	26	6.9
WISCONSIN	1		605	35.8	25	41.9	35	6.1
WYOMING	1		158	31.5	18	38.1	28	6.6
BIA	1	872	631	24.1	10	27.8	14	3.7
TOTAL (WEIGHTED)			88,804	32.7	20	39.2	30	6.5
NUMBER OF STATES REPORTING			47					

Table D.10 (Cont)

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Fall-Spring Reading

State	Sample Weight	Grade 7 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		231	37.8	28	39.0	30	1.2
ALASKA	1		71	40.0	31	48.7	46	8.8
ARIZONA	3		194	28.7	15	34.0	22	5.3
ARKANSAS	1		683	34.1	22	41.4	34	7.3
CALIFORNIA	1		3,489	31.1	18	36.4	25	5.3
COLORADO	1		808	30.5	17	37.9	28	7.4
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		82	37.0	26	41.0	33	4.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		3,662	28.7	15	34.0	22	5.3
HAWAII	1		955	29.6	16	37.7	28	8.1
IDAHO	1		327	32.7	20	39.2	30	6.5
ILLINOIS	1	3,122	2,860	34.4	23	39.2	30	4.8
INDIANA	1	2,610	2,063	33.9	22	38.3	29	4.4
IOWA	1	1,003	781	38.5	29	43.0	37	4.5
KANSAS	1		476	34.5	23	41.2	33	6.7
KENTUCKY	1	4,376	3,643	30.7	18	36.9	26	6.2
LOUISIANA	1		1,557	31.2	18	36.6	26	5.4
MAINE	1		479	33.1	21	37.5	27	4.4
MARYLAND	1		49	38.1	28	44.1	39	6.0
MASSACHUSETTS	1		2,050	33.6	21	38.6	29	5.0
MICHIGAN	1	677	541	29.2	16	33.4	21	4.2
MINNESOTA	1	548	406	31.9	19	36.7	26	4.8
MISSISSIPPI	3	1,786	1,529	25.8	12	33.1	21	7.3
MISSOURI	1	1,261	1,094	33.6	21	38.5	29	4.9
MONTANA	1		301	38.2	28	43.5	37	5.3
NEBRASKA	1		764	37.1	27	42.4	35	5.2
NEVADA	1	951	661	21.5	8	24.1	10	2.6
NEW HAMPSHIRE	1		336	34.3	22	41.8	34	7.5
NEW JERSEY	1		3,796	33.5	21	38.6	29	5.1
NEW MEXICO	1		673	26.9	13	34.5	23	7.6
NEW YORK	1		4,147	35.6	24	41.4	34	5.8
NORTH CAROLINA	3	357	330	30.5	17	35.8	24	5.3
NORTH DAKOTA	1	234	170	33.2	21	39.4	30	6.2
OHIO	3		392	31.7	19	38.7	29	7.0
OKLAHOMA	1	2,508	1,821	31.1	18	35.2	24	4.1
OREGON	3		460	26.6	13	32.8	20	6.2
PENNSYLVANIA	1	5,598	5,232	31.0	18	37.4	27	6.4
RHODE ISLAND	1		741	28.4	15	33.8	22	5.4
SOUTH CAROLINA	1			0.0	0		0	
SOUTH DAKOTA	1	17	16	33.3	21	42.1	35	8.8
TENNESSEE	3		522	37.0	26	38.9	29	1.9
TEXAS	1			0.0	0		0	
UTAH	1		358	30.3	17	36.9	26	6.6
VERMONT	1		97	30.5	17	35.0	23	4.5
VIRGINIA	1	1,342	1,059	34.8	23	39.4	30	4.6
WASHINGTON	3		252	33.8	22	40.0	31	6.2
WEST VIRGINIA	1		359	26.9	13	33.6	21	6.7
WISCONSIN	1		533	33.8	22	38.7	29	4.9
WYOMING	1		47	34.6	23	41.7	34	7.1
BIA	1	676	518	27.1	13	31.1	18	4.0
TOTAL (WEIGHTED)			59,204	31.6	19	37.2	27	5.6
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Table D.10 (Cont)

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Fall-Spring Reading

State	Sample Weight	Grade 8 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		210	34.5	23	39.0	30	4.5
ALASKA	1		49	32.5	20	42.9	36	10.5
ARIZONA	3		199	28.6	15	38.1	28	9.4
ARKANSAS	1		435	38.1	28	45.4	41	7.3
CALIFORNIA	1		3,085	31.1	18	34.3	22	3.2
COLORADO	1		627	32.3	20	37.3	27	5.0
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		56	35.0	23	39.0	30	4.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		1,889	31.9	19	34.0	22	2.1
HAWAII	1		892	29.4	16	35.1	24	5.7
IDAHO	1		269	34.9	23	38.5	29	3.7
ILLINOIS	1	2,303	2,122	33.8	22	39.1	30	5.3
INDIANA	1	1,903	1,456	31.7	19	36.5	26	4.8
IOWA	1	791	614	39.1	30	42.8	36	3.7
KANSAS	1		371	34.2	22	40.2	32	6.0
KENTUCKY	1	4,127	3,480	30.6	17	37.1	27	6.5
LOUISIANA	1		1,170	29.5	16	33.2	21	3.7
MAINE	1		399	31.8	19	37.2	27	5.3
MARYLAND	1		45	41.5	34	44.0	38	2.5
MASSACHUSETTS	1		1,745	32.7	20	37.5	27	4.8
MICHIGAN	1	670	551	27.9	14	32.7	20	4.8
MINNESOTA	1	279	227	30.5	17	37.0	26	6.5
MISSISSIPPI	3	1,765	1,364	28.6	15	34.4	22	5.8
MISSOURI	1	881	760	32.2	19	35.7	24	3.5
MONTANA	1		265	37.9	28	43.8	38	5.9
NEBRASKA	1		658	37.5	27	41.8	34	4.3
NEVADA	1	707	488	31.6	19	32.1	19	0.5
NEW HAMPSHIRE	1		252	32.4	20	38.5	29	6.1
NEW JERSEY	1		3,523	34.3	22	38.4	29	4.1
NEW MEXICO	1		486	25.7	12	32.0	19	6.3
NEW YORK	1		3,169	34.6	23	40.1	32	5.5
NORTH CAROLINA	3	335	288	22.7	9	27.4	14	4.7
NORTH DAKOTA	1	208	167	34.8	23	36.8	26	2.0
OHIO	3		232	33.2	21	38.2	28	5.0
OKLAHOMA	1	2,296	1,741	31.7	19	36.8	26	5.1
OREGON	3		443	26.1	12	33.4	21	7.3
PENNSYLVANIA	1	5,032	4,639	30.5	17	37.4	27	6.9
RHODE ISLAND	1		663	27.5	14	32.8	20	5.3
SOUTH CAROLINA	1			0.0	0		0	
SOUTH DAKOTA	1	18	16	33.7	21	41.3	34	7.6
TENNESSEE	3		315	34.2	22	35.7	24	1.5
TEXAS	1			0.0	0		0	
UTAH	1		238	26.8	13	37.8	28	11.0
VERMONT	1		106	32.2	19	34.1	22	1.9
VIRGINIA	1	729	541	25.8	12	31.9	19	6.1
WASHINGTON	3		145	32.6	20	36.7	26	4.1
WEST VIRGINIA	1		183	19.8	7	32.9	20	13.1
WISCONSIN	1		651	35.1	24	38.5	29	3.4
WYOMING	1		43	31.4	18	38.2	28	6.8
BIA	1	623	445	25.0	11	28.6	15	3.6
TOTAL (WEIGHTED)			47,894	31.4	18	36.5	26	5.1
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Table D.10 (Cont)

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Fall-Spring Reading

State	Sample Weight	Grade 9 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		18	30.9	18	36.5	26	5.6
ALASKA	1		38	35.1	23	41.7	34	6.7
ARIZONA	3		371	18.6	6	23.2	10	4.6
ARKANSAS	1		200	21.8	9	26.6	13	4.8
CALIFORNIA	1		6,754	30.2	17	33.6	21	3.4
COLORADO	1		169	32.5	20	37.2	27	4.7
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		43	36.0	25	36.0	25	0.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		548	24.3	11	27.7	14	3.4
HAWAII	1		545	29.1	15	32.3	20	3.2
IDAHO	1		99	37.8	28	44.2	39	6.4
ILLINOIS	1	3,331	2,998	32.1	19	37.4	27	5.3
INDIANA	1	733	537	30.1	17	35.0	23	4.9
IOWA	1	165	117	37.8	28	42.5	36	4.7
KANSAS	1		39	33.5	21	38.8	29	5.3
KENTUCKY	1	1,636	1,258	32.4	20	37.4	27	5.0
LOUISIANA	1			0.0	0		0	
MAINE	1		75	33.7	21	40.1	31	6.4
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		953	32.9	20	38.7	29	5.8
MICHIGAN	1	814	526	29.0	15	32.0	19	3.0
MINNESOTA	1	92	77	31.6	19	39.8	31	8.2
MISSISSIPPI	3	617	516	28.2	14	32.7	20	4.5
MISSOURI	1	209	160	25.4	12	30.1	17	4.7
MONTANA	1		296	34.5	23	40.1	32	5.6
NEBRASKA	1		282	35.6	24	41.2	33	5.5
NEVADA	1	349	257	26.4	13	27.7	14	1.3
NEW HAMPSHIRE	1		133	32.4	20	37.6	27	5.2
NEW JERSEY	1		2,791	36.1	25	38.5	29	2.4
NEW MEXICO	1		342	25.7	12	31.3	18	5.7
NEW YORK	1		1,692	33.7	22	39.5	30	5.8
NORTH CAROLINA	3	87	79	19.5	7	21.4	8	1.9
NORTH DAKOTA	1	107	50	30.8	18	34.4	22	3.6
OHIO	3		53	31.4	18	40.4	32	9.0
OKLAHOMA	1	745	558	27.7	14	34.1	22	6.4
OREGON	3		442	26.8	13	32.1	19	5.3
PENNSYLVANIA	1	2,949	2,641	30.5	17	37.1	27	6.6
RHODE ISLAND	1		449	20.0	7	26.6	13	6.6
SOUTH CAROLINA	1			0.0	0		0	
SOUTH DAKOTA	1			0.0	0		0	
TENNESSEE	3		12	18.0	6	28.6	15	10.6
TEXAS	1			0.0	0		0	
UTAH	1		17	22.7	9	24.2	10	1.5
VERMONT	1		116	33.1	21	41.4	34	8.3
VIRGINIA	1	157	103	30.8	18	36.5	26	5.7
WASHINGTON	3		17	32.4	20	37.4	27	5.0
WEST VIRGINIA	1		49	26.1	12	34.6	23	8.5
WISCONSIN	1		592	34.1	22	38.4	29	4.3
WYOMING	1		21	34.7	23	39.6	30	4.8
BIA	1	736	406	27.0	13	29.9	17	2.9
TOTAL (WEIGHTED)			30,437	30.3	17	34.8	23	4.5
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Table D.10 (Cont)

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Fall-Spring Reading

State	Sample Weight	Grade 10 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		8	32.3	20	38.3	29	6.0
ALASKA	1		1	19.0	7	1.0	1	-18.0
ARIZONA	3		183	23.6	10	26.8	13	3.2
ARKANSAS	1		85	24.2	11	31.8	19	7.6
CALIFORNIA	1		3,031	29.9	17	32.9	20	3.0
COLORADO	1		120	27.2	14	30.7	18	3.5
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		13	26.0	12	30.0	17	4.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		113	30.3	17	36.2	25	5.9
HAWAII	1		419	27.3	14	33.1	21	5.8
IDAHO	1		48	32.4	20	38.9	29	6.4
ILLINOIS	1	1,179	1,103	30.1	17	33.6	21	3.5
INDIANA	1	440	312	27.3	14	33.0	21	5.7
IOWA	1			0.0	0		0	
KANSAS	1		46	30.5	17	34.8	23	4.3
KENTUCKY	1	437	324	33.6	21	37.7	28	4.1
LOUISIANA	1			0.0	0		0	
MAINE	1		22	28.2	14	32.4	20	4.2
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		589	32.2	19	37.9	28	5.7
MICHIGAN	1	377	202	26.7	13	31.2	18	4.4
MINNESOTA	1	50	29	26.0	12	34.0	22	8.0
MISSISSIPPI	3	282	249	27.5	14	37.1	27	9.6
MISSOURI	1	127	101	22.2	9	27.8	14	5.6
MONTANA	1		259	35.4	24	41.3	34	5.9
NEBRASKA	1		142	35.9	25	41.1	33	5.2
NEVADA	1	1	1	36.5	26	37.7	28	1.2
NEW HAMPSHIRE	1		77	35.4	24	41.7	34	6.3
NEW JERSEY	1		2,092	35.4	24	37.8	28	2.4
NEW MEXICO	1		97	28.1	14	34.0	22	5.8
NEW YORK	1		1,076	32.6	20	37.8	28	5.2
NORTH CAROLINA	3	149	100	19.7	7	20.0	7	0.4
NORTH DAKOTA	1	51	31	34.6	23	39.3	30	4.7
OHIO	3		39	32.0	19	45.0	40	13.0
OKLAHOMA	1	329	238	24.5	11	29.1	15	4.6
OREGON	3		240	24.2	11	30.3	17	6.1
PENNSYLVANIA	1	1,307	1,185	32.0	19	37.6	27	5.6
RHODE ISLAND	1		184	29.0	15	35.5	24	6.5
SOUTH CAROLINA	1	54	40	20.3	7	33.8	22	13.5
SOUTH DAKOTA	1			0.0	0		0	
TENNESSEE	3		6	17.6	6	17.0	5	-0.6
TEXAS	1			0.0	0		0	
UTAH	1		7	32.1	19	30.0	17	-2.1
VERMONT	1		32	35.6	24	39.2	30	3.6
VIRGINIA	1	71	61	27.2	14	33.5	21	6.3
WASHINGTON	3		69	32.1	19	34.0	22	1.9
WEST VIRGINIA	1		36	23.1	10	31.3	18	8.2
WISCONSIN	1		286	36.4	25	39.7	31	3.3
WYOMING	1		27	30.5	17	34.8	23	4.3
BIA	1	422	206	22.1	9	25.6	12	3.5
TOTAL (WEIGHTED)			15,309	30.2	17	34.6	23	4.4
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Table D.10 (Cont)

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Fall-Spring Reading

State	Sample Weight	Grade 11 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		1	26.3	12	35.8	25	9.5
ALASKA	1		1	18.9	7	28.2	15	9.3
ARIZONA	3		83	20.5	8	25.6	12	5.1
ARKANSAS	1		91	29.1	15	35.4	24	6.3
CALIFORNIA	1		1,619	29.5	16	32.0	19	2.5
COLORADO	1		59	24.4	11	26.7	13	2.3
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		19	26.0	12	31.0	18	5.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		60	39.6	30	42.8	36	3.2
HAWAII	1		307	25.4	12	29.2	16	3.8
IDAHO	1		23	32.1	19	44.8	40	12.7
ILLINOIS	1	467	305	24.9	11	28.6	15	3.7
INDIANA	1	95	54	23.5	10	31.2	18	7.7
IOWA	1			0.0	0		0	
KANSAS	1		30	30.7	18	33.7	22	3.0
KENTUCKY	1	157	102	29.6	16	33.3	21	3.7
LOUISIANA	1			0.0	0		0	
MAINE	1		14	32.0	19	35.6	24	3.6
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		324	32.7	20	37.6	27	4.9
MICHIGAN	1	256	130	30.6	17	34.8	23	4.1
MINNESOTA	1	28	21	32.0	19	36.9	26	4.9
MISSISSIPPI	3	34	29	28.0	14	44.0	38	16.0
MISSOURI	1	9	5	34.9	23	42.9	36	8.0
MONTANA	1		207	32.9	20	38.1	28	5.2
NEBRASKA	1		70	36.6	26	40.5	32	3.9
NEVADA	1			0.0	0		0	
NEW HAMPSHIRE	1		40	31.3	18	40.5	32	9.2
NEW JERSEY	1		696	34.7	23	38.5	29	3.8
NEW MEXICO	1		42	31.0	18	33.4	21	2.4
NEW YORK	1		601	30.6	17	34.9	23	4.3
NORTH CAROLINA	3	30	22	30.0	17	32.1	19	2.1
NORTH DAKOTA	1	12	10	32.3	19	36.6	26	4.3
OHIO	3		4	39.8	31	41.8	34	2.0
OKLAHOMA	1	251	230	28.2	15	34.0	22	5.8
OREGON	3		216	24.0	10	30.0	17	6.0
PENNSYLVANIA	1	868	784	30.1	17	35.0	23	4.9
RHODE ISLAND	1		143	29.5	16	36.1	25	6.6
SOUTH CAROLINA	1	47	40	24.4	11	35.2	24	10.8
SOUTH DAKOTA	1			0.0	0		0	
TENNESSEE	3		8	15.4	5	10.8	3	-4.6
TEXAS	1			0.0	0		0	
UTAH	1		4	30.3	17	41.5	34	11.3
VERMONT	1		17	31.5	19	39.8	31	8.3
VIRGINIA	1	11	12	16.5	5	32.4	20	15.9
WASHINGTON	3		56	31.2	18	39.2	30	8.0
WEST VIRGINIA	1		15	12.8	3	20.2	7	7.4
WISCONSIN	1		138	30.9	18	35.0	23	4.1
WYOMING	1		22	31.4	18	34.9	23	3.6
BIA	1	268	159	24.5	11	28.9	15	4.4
TOTAL (WEIGHTED)			7,650	29.2	16	33.6	21	4.4
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State	Sample Weight	Grade 12 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2			0.0	0		0	
ALASKA	1		3	15.6	5	15.9	5	0.4
ARIZONA	3		47	16.6	5	21.5	8	4.9
ARKANSAS	1		74	17.7	6	26.1	12	8.4
CALIFORNIA	1		605	29.1	15	28.9	15	-0.2
COLORADO	1		50	27.4	14	31.6	19	4.2
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		19	24.0	10	20.0	7	-4.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		35	52.8	55	48.9	46	-4.0
HAWAII	1		160	25.1	11	30.6	17	5.5
IDAHO	1		18	32.5	20	47.9	46	15.5
ILLINOIS	1	169	84	21.7	8	26.3	13	4.6
INDIANA	1	57	27	26.5	13	29.1	16	2.6
IOWA	1			0.0	0		0	
KANSAS	1		14	24.0	10	24.5	11	0.5
KENTUCKY	1	88	51	29.2	16	30.5	17	1.3
LOUISIANA	1			0.0	0		0	
MAINE	1		4	16.3	5	32.0	19	15.8
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		200	33.2	21	38.0	28	4.8
MICHIGAN	1	47	22	23.6	10	29.6	16	6.0
MINNESOTA	1	19	11	16.3	5	23.4	10	7.1
MISSISSIPPI	3			0.0	0		0	
MISSOURI	1	7	7	13.1	4	16.4	5	3.3
MONTANA	1		150	30.6	17	37.7	28	7.1
NEBRASKA	1		57	37.5	27	42.8	36	5.4
NEVADA	1			0.0	0		0	
NEW HAMPSHIRE	1		14	40.7	33	52.1	53	11.4
NEW JERSEY	1		457	28.0	14	30.1	17	2.1
NEW MEXICO	1		45	29.1	16	33.3	21	4.2
NEW YORK	1		244	28.0	14	31.5	19	3.5
NORTH CAROLINA	3	43	35	44.5	39	58.1	65	13.6
NORTH DAKOTA	1	2	2	16.0	5	29.5	16	13.5
OHIO	3		5	41.0	33	45.0	40	4.0
OKLAHOMA	1	194	160	28.7	15	34.2	22	5.6
OREGON	3		100	24.0	10	30.5	17	6.5
PENNSYLVANIA	1	517	484	27.6	14	32.4	20	4.8
RHODE ISLAND	1		116	30.6	17	37.6	27	7.0
SOUTH CAROLINA	1	31	22	22.5	9	30.2	17	7.7
SOUTH DAKOTA	1			0.0	0		0	
TENNESSEE	3		2	1.0	1	6.7	2	5.7
TEXAS	1			0.0	0		0	
UTAH	1		3	22.7	9	51.7	53	29.0
VERMONT	1		3	27.7	14	25.0	11	-2.7
VIRGINIA	1	107	104	30.6	17	32.2	19	1.6
WASHINGTON	3		43	36.6	26	46.8	44	10.2
WEST VIRGINIA	1		10	11.3	3	19.6	7	8.3
WISCONSIN	1		77	31.4	18	37.5	27	6.1
WYOMING	1		11	37.5	27	40.1	31	2.6
BIA	1	159	96	22.4	9	27.3	14	4.9
TOTAL (WEIGHTED)			4,135	28.4	15	32.7	20	4.3
NUMBER OF STATES REPORTING			41					

Table D.11

Mathematics Achievement Information for Chapter 1 Participants Tested on an Annual Cycle, by Grade and State -- 1986-87

1986-87 Chapter 1
Annual Math

State	Sample Weight	Grade 2 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		2,518	33.4	21	42.5	36	9.1
ALASKA	1		99	38.4	29	40.2	32	1.8
ARIZONA	3		489	31.7	19	32.8	20	1.1
ARKANSAS	1		2,075	42.1	35	43.7	38	1.6
CALIFORNIA	1		26,274	41.6	34	42.1	35	0.5
COLORADO	1		74	42.3	35	41.5	34	-0.8
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		146	47.0	44	61.0	70	14.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1	8,395	4,916	31.6	19	41.4	34	9.8
GEORGIA	1		4,533	36.4	25	47.2	44	10.8
HAWAII	1			0.0	0		0	
IDAHO	1		33	34.8	23	34.2	22	-0.6
ILLINOIS	1	1,294	1,215	36.2	25	33.8	22	-2.4
INDIANA	1	1,646	1,220	40.6	32	45.3	41	4.7
IOWA	1			0.0	0		0	
KANSAS	1		515	30.5	17	45.6	41	15.1
KENTUCKY	1	573	486	39.6	31	54.1	57	14.5
LOUISIANA	1		4,000	33.6	21	41.5	34	7.9
MAINE	1		223	40.8	33	42.0	35	1.2
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		313	38.3	29	53.7	57	15.4
MICHIGAN	1	4,654	3,829	44.0	38	47.1	44	3.1
MINNESOTA	1	300	235	31.9	19	45.5	41	13.6
MISSISSIPPI	3	84	79	31.5	18	49.1	48	17.7
MISSOURI	1	687	446	33.5	21	41.4	34	7.9
MONTANA	1		186	40.4	32	47.0	44	6.6
NEBRASKA	1			0.0	0		0	
NEVADA	1	98	72	64.6	75	83.9	94	19.3
NEW HAMPSHIRE	1		100	32.2	19	36.7	26	4.5
NEW JERSEY	1		4,752	38.1	28	51.4	52	13.3
NEW MEXICO	1		172	33.4	21	44.7	39	11.2
NEW YORK	1		3,270	31.6	19	45.5	41	13.9
NORTH CAROLINA	3	184	176	32.4	20	42.8	36	10.4
NORTH DAKOTA	1	65	61	39.6	31	45.1	40	5.4
OHIO	3			0.0	0		0	
OKLAHOMA	1	805	674	31.8	19	39.9	31	8.2
OREGON	3		200	33.5	21	44.4	39	10.9
PENNSYLVANIA	1	626	508	35.8	25	46.8	44	11.0
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	1,787	1,588	33.9	22	46.8	44	12.9
SOUTH DAKOTA	1	964	837	40.0	31	47.8	45	7.8
TENNESSEE	3		567	35.9	25	48.5	47	12.6
TEXAS	1	12,151	8,076	36.6	26	44.5	39	7.9
UTAH	1		423	36.7	26	44.5	39	7.8
VERMONT	1		197	20.4	7	31.8	19	11.4
VIRGINIA	1	2,348	1,548	38.9	29	44.0	38	5.1
WASHINGTON	3		310	38.8	29	42.3	35	3.5
WEST VIRGINIA	1		910	44.4	39	51.8	53	7.4
WISCONSIN	1		1,315	36.6	26	42.8	36	6.2
WYOMING	1		13	49.3	48	45.6	41	-3.8
BIA	1	7	2	23.4	10	24.4	11	1.0
TOTAL (WEIGHTED)			84,661	37.8	28	43.8	38	6.0
NUMBER OF STATES REPORTING			44					

Table D.11 (Cont)

1986-87 Chapter 1
Annual Math

State	Sample Weight	Grade 3 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		2,626	33.6	21	37.1	27	3.5
ALASKA	1		107	28.1	14	37.0	26	8.9
ARIZONA	3		604	29.1	15	25.0	11	-4.1
ARKANSAS	1		2,155	40.0	31	40.5	32	0.5
CALIFORNIA	1		27,530	39.1	30	39.9	31	0.8
COLORADO	1		55	35.9	25	37.5	27	1.6
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		175	48.0	46	49.0	48	1.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1	9,245	5,647	31.7	19	38.0	28	6.4
GEORGIA	1		5,701	34.6	23	38.0	28	3.4
HAWAII	1			0.0	0		0	
IDAHO	1		60	28.9	15	28.0	14	-0.9
ILLINOIS	1	2,579	2,446	33.1	21	33.7	22	0.6
INDIANA	1	2,750	1,941	45.3	41	48.5	47	3.2
IOWA	1			0.0	0		0	
KANSAS	1		649	33.1	21	36.6	26	3.5
KENTUCKY	1	743	615	34.7	23	42.9	36	8.2
LOUISIANA	1		3,910	33.3	21	40.4	32	7.1
MAINE	1		175	32.9	20	36.0	25	3.1
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		280	34.8	23	45.0	40	10.2
MICHIGAN	1	4,781	4,134	41.3	34	42.7	36	1.4
MINNESOTA	1	229	181	29.5	16	42.3	35	12.8
MISSISSIPPI	3	591	540	35.9	25	45.8	42	9.9
MISSOURI	1	976	698	35.4	24	41.0	33	5.6
MONTANA	1		153	36.8	26	46.2	42	9.4
NEBRASKA	1			0.0	0		0	
NEVADA	1	108	82	29.8	16	38.1	28	8.3
NEW HAMPSHIRE	1		115	33.0	21	39.7	31	6.7
NEW JERSEY	1		5,786	39.7	31	52.3	54	12.6
NEW MEXICO	1		197	35.2	24	41.4	34	6.2
NEW YORK	1		5,315	33.1	21	43.0	37	9.9
NORTH CAROLINA	3	356	309	32.6	20	42.8	36	10.1
NORTH DAKOTA	1	103	93	38.7	29	41.2	33	2.5
OHIO	3			0.0	0		0	
OKLAHOMA	1	1,042	888	31.9	19	38.1	28	6.2
OREGON	3		374	34.4	23	41.6	34	7.2
PENNSYLVANIA	1	703	540	39.1	30	47.7	45	8.6
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	1,566	1,348	35.1	24	40.9	33	5.8
SOUTH DAKOTA	1	836	733	39.2	30	43.8	38	4.6
TENNESSEE	3		637	37.2	27	44.7	40	7.5
TEXAS	1	13,366	9,511	35.1	23	41.3	34	6.2
UTAH	1		654	36.0	25	40.3	32	4.3
VERMONT	1		225	20.3	7	29.0	15	8.7
VIRGINIA	1	2,226	1,589	36.4	25	42.4	35	6.0
WASHINGTON	3		342	41.0	33	43.1	37	2.1
WEST VIRGINIA	1		925	40.8	33	39.3	30	-1.5
WISCONSIN	1		1,129	37.3	27	41.3	34	4.0
WYOMING	1		26	42.3	35	42.6	36	0.4
BIA	1	6	6	25.2	11	22.9	9	-2.3
TOTAL (WEIGHTED)			98,170	36.6	26	40.8	33	4.2
NUMBER OF STATES REPORTING			44					

Table D.11 (Cont)

1986-87 Chapter 1
Annual Math

State	Sample Weight	Grade 4 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		2,301	32.7	20	40.1	32	7.4
ALASKA	1		99	31.4	18	32.4	20	1.0
ARIZONA	3		526	28.3	15	32.0	19	3.7
ARKANSAS	1		2,225	37.4	27	42.2	35	4.8
CALIFORNIA	1		29,787	38.8	29	41.2	33	2.4
COLORADO	1		120	27.4	14	32.7	20	5.3
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		268	47.0	44	49.0	48	2.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1	9,927	6,367	31.8	19	35.6	24	3.8
GEORGIA	1		4,556	35.0	23	39.5	30	4.5
HAWAII	1			0.0	0		0	
IDAHO	1		71	29.0	15	33.3	21	4.3
ILLINOIS	1	3,200	2,870	33.3	21	34.5	23	1.2
INDIANA	1	2,474	1,987	40.0	31	45.0	40	5.0
IOWA	1			0.0	0		0	
KANSAS	1		904	30.9	18	39.0	30	8.1
KENTUCKY	1	1,212	1,022	32.0	19	43.7	38	11.7
LOUISIANA	1		3,535	35.2	24	38.0	28	2.8
MAINE	1		215	39.7	31	40.2	32	0.4
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		703	40.0	31	48.7	47	8.7
MICHIGAN	1	5,137	4,463	39.5	30	44.0	38	4.4
MINNESOTA	1	282	237	31.8	19	40.3	32	8.5
MISSISSIPPI	3	617	522	34.1	22	43.0	36	8.9
MISSOURI	1	972	659	35.4	24	42.4	35	7.0
MONTANA	1		188	38.5	29	44.4	39	5.9
NEBRASKA	1			0.0	0		0	
NEVADA	1	82	59	32.0	19	34.1	22	2.1
NEW HAMPSHIRE	1		97	31.3	18	35.5	24	4.2
NEW JERSEY	1		6,029	42.5	36	50.3	50	7.8
NEW MEXICO	1		247	30.5	17	37.2	27	6.7
NEW YORK	1		5,574	34.6	23	42.5	36	7.9
NORTH CAROLINA	3	1,571	1,340	33.6	21	37.8	28	4.2
NORTH DAKOTA	1	108	108	36.0	25	45.0	40	9.0
OHIO	3			0.0	0		0	
OKLAHOMA	1	1,234	1,065	30.0	17	36.6	26	6.6
OREGON	3		416	33.3	21	39.6	31	6.3
PENNSYLVANIA	1	557	473	42.5	36	48.6	47	6.1
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	2,197	1,960	35.5	24	43.9	38	8.4
SOUTH DAKOTA	1	815	687	40.0	31	43.1	37	3.1
TENNESSEE	3		508	39.0	30	40.4	32	1.4
TEXAS	1	14,495	10,121	34.6	23	39.9	31	5.3
UTAH	1		510	33.6	21	40.7	33	7.1
VERMONT	1		255	21.3	8	30.5	17	9.2
VIRGINIA	1	2,810	2,010	37.4	27	42.2	35	4.8
WASHINGTON	3		242	38.7	29	41.9	35	3.2
WEST VIRGINIA	1		1,110	32.8	20	41.8	34	9.0
WISCONSIN	1		1,053	36.5	26	40.9	33	4.4
WYOMING	1		17	34.8	23	41.7	34	6.9
BIA	1	6	6	23.6	10	22.5	9	-1.1
TOTAL (WEIGHTED)			105,905	36.3	25	41.0	33	4.7
NUMBER OF STATES REPORTING			44					

Table D.11 (Cont)

1986-87 Chapter 1
Annual Math

State	Sample Weight	Grade 5 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		2,471	35.8	25	40.4	32	4.6
ALASKA	1		103	29.5	16	31.1	18	1.5
ARIZONA	3		549	26.7	13	34.4	22	7.7
ARKANSAS	1		2,031	38.2	28	40.7	33	2.5
CALIFORNIA	1		29,055	39.6	31	41.6	34	2.0
COLORADO	1		72	29.3	16	34.3	22	5.0
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		322	42.0	35	50.0	50	8.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1	4,392	2,846	30.9	18	36.4	25	5.4
GEORGIA	1		5,879	33.8	22	36.7	26	2.9
HAWAII	1			0.0	0		0	
IDAHO	1		41	38.5	29	38.2	28	-0.3
ILLINOIS	1	3,205	2,949	34.8	23	36.3	25	1.5
INDIANA	1	2,336	1,924	41.6	34	46.0	42	4.4
IOWA	1			0.0	0		0	
KANSAS	1		718	31.4	18	40.8	33	9.4
KENTUCKY	1	1,122	950	34.7	23	47.3	44	12.6
LOUISIANA	1		3,122	33.8	22	40.8	33	7.0
MAINE	1		234	37.3	27	40.9	33	3.6
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		485	37.2	27	42.4	35	5.2
MICHIGAN	1	4,420	3,949	39.5	30	43.5	37	4.0
MINNESOTA	1	198	173	33.2	21	41.6	34	8.4
MISSISSIPPI	3	746	661	37.5	27	39.7	31	2.2
MISSOURI	1	669	522	34.3	22	43.0	37	8.7
MONTANA	1		140	35.7	24	42.0	35	6.3
NEBRASKA	1			0.0	0		0	
NEVADA	1	99	74	35.3	24	39.2	30	3.9
NEW HAMPSHIRE	1		113	31.9	19	37.5	27	5.6
NEW JERSEY	1		5,864	42.5	36	50.5	51	8.0
NEW MEXICO	1		168	29.4	16	34.5	23	5.1
NEW YORK	1		4,581	35.8	25	41.5	34	5.7
NORTH CAROLINA	3	1,492	1,398	34.4	23	37.0	26	2.6
NORTH DAKOTA	1	120	115	36.5	26	40.7	33	4.2
OHIO	3			0.0	0		0	
OKLAHOMA	1	1,300	1,189	28.7	15	34.5	23	5.8
OREGON	3		327	32.5	20	35.9	25	3.4
PENNSYLVANIA	1	601	509	37.7	28	44.6	39	6.9
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	1,947	1,763	37.3	27	41.2	33	3.9
SOUTH DAKOTA	1	743	658	37.9	28	42.9	36	5.0
TENNESSEE	3		787	37.7	28	40.7	33	3.0
TEXAS	1	13,880	10,111	34.3	22	40.0	31	5.7
UTAH	1		434	33.4	21	39.1	30	5.7
VERMONT	1		215	30.1	17	34.4	22	4.3
VIRGINIA	1	2,508	1,823	38.2	28	45.1	40	6.9
WASHINGTON	3		264	37.5	27	41.1	33	3.6
WEST VIRGINIA	1		918	37.8	28	45.1	40	7.3
WISCONSIN	1		1,010	36.9	26	41.1	33	4.2
WYOMING	1		5	30.1	17	39.4	30	9.4
BIA	1	11	11	16.3	5	20.3	7	4.0
TOTAL (WEIGHTED)			100,402	36.9	26	41.0	33	4.1
NUMBER OF STATES REPORTING			44					

Table D.11 (Cont)

1986-87 Chapter 1
Annual Math

State	Sample Weight	Grade 6 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		2,141	35.1	24	39.1	30	4.0
ALASKA	1		91	30.2	17	30.2	17	0.0
ARIZONA	3		481	27.6	14	31.8	19	4.3
ARKANSAS	1		1,320	37.0	26	43.1	37	6.1
CALIFORNIA	1		21,247	39.7	31	43.5	37	3.8
COLORADO	1		77	34.1	22	34.6	23	0.5
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		180	43.0	37	50.0	50	7.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1	4,475	2,830	29.8	16	32.6	20	2.7
GEORGIA	1		5,069	33.1	21	35.0	23	1.9
HAWAII	1			0.0	0		0	
IDAHO	1		91	33.2	21	38.4	29	5.3
ILLINOIS	1	3,356	3,038	34.6	23	35.9	25	1.3
INDIANA	1	1,810	1,462	43.1	37	46.1	42	3.0
IOWA	1			0.0	0		0	
KANSAS	1		698	33.1	21	35.4	24	2.3
KENTUCKY	1	503	410	36.2	25	45.3	41	9.1
LOUISIANA	1		1,509	35.6	24	38.5	29	3.0
MAINE	1		185	36.3	25	33.7	22	-2.6
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		463	35.5	24	42.7	36	7.2
MICHIGAN	1	3,545	2,986	40.0	31	37.3	27	-2.7
MINNESOTA	1	132	117	32.7	20	39.4	30	6.7
MISSISSIPPI	3	569	513	37.6	27	43.1	37	5.5
MISSOURI	1	647	324	35.0	23	40.9	33	5.9
MONTANA	1		172	35.3	24	39.2	30	3.9
NEBRASKA	1			0.0	0		0	
NEVADA	1	70	47	29.3	16	34.5	23	5.2
NEW HAMPSHIRE	1		67	35.7	24	38.8	29	3.1
NEW JERSEY	1		5,469	43.6	38	52.4	54	8.8
NEW MEXICO	1		145	33.2	21	34.3	22	1.0
NEW YORK	1		4,434	35.3	24	41.5	34	6.2
NORTH CAROLINA	3	1,519	1,329	32.1	19	37.6	27	5.5
NORTH DAKOTA	1	86	82	37.0	26	40.1	32	3.1
OHIO	3			0.0	0		0	
OKLAHOMA	1	1,233	1,029	29.5	16	34.4	23	4.9
OREGON	3		247	32.9	20	40.4	32	7.5
PENNSYLVANIA	1	619	529	34.6	23	40.8	33	6.2
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	1,309	1,183	36.6	26	40.8	33	4.2
SOUTH DAKOTA	1	620	551	37.7	28	40.6	32	2.9
TENNESSEE	3		764	37.0	26	39.9	31	2.9
TEXAS	1	8,038	5,516	33.7	22	38.0	28	4.3
UTAH	1		285	31.4	18	39.8	31	8.4
VERMONT	1		191	27.4	14	32.1	19	4.7
VIRGINIA	1	2,146	1,373	42.0	35	42.3	35	0.3
WASHINGTON	3		132	37.2	27	42.0	35	4.8
WEST VIRGINIA	1		648	39.4	30	42.1	35	2.7
WISCONSIN	1		761	35.6	24	39.7	31	4.1
WYOMING	1		19	39.5	30	39.6	31	0.2
BIA	1	8	8	21.8	9	12.3	3	-9.5
TOTAL (WEIGHTED)			77,758	36.8	26	40.8	33	4.0
NUMBER OF STATES REPORTING			44					

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State	Sample Weight	Grade 7 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		515	32.4	20	37.6	27	5.2
ALASKA	1		18	29.2	16	37.6	27	8.4
ARIZONA	3		136	23.0	9	32.1	19	9.2
ARKANSAS	1		878	38.2	28	39.5	30	1.3
CALIFORNIA	1		20,440	40.9	33	41.9	35	1.0
COLORADO	1		38	27.7	14	33.0	21	5.3
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		43	36.0	25	39.0	30	3.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1	1,765	1,295	26.5	13	32.4	20	5.9
GEORGIA	1		3,667	32.4	20	35.3	24	2.9
HAWAII	1			0.0	0		0	
IDAHO	1		45	36.2	25	37.8	28	1.6
ILLINOIS	1	2,835	2,548	35.5	24	37.3	27	1.8
INDIANA	1	1,142	899	44.6	39	44.2	39	-0.4
IOWA	1			0.0	0		0	
KANSAS	1		459	34.4	23	39.3	30	4.9
KENTUCKY	1	474	356	31.0	18	39.6	31	8.6
LOUISIANA	1		962	32.0	19	37.9	28	5.8
MAINE	1		134	34.3	22	36.4	25	2.1
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		308	36.5	26	37.9	28	1.4
MICHIGAN	1	3,994	3,371	35.7	24	41.2	33	5.6
MINNESOTA	1	38	32	36.4	25	34.1	22	-2.3
MISSISSIPPI	3	440	391	37.1	26	41.1	33	4.0
MISSOURI	1	473	278	33.7	22	40.1	32	6.4
MONTANA	1		150	36.6	26	41.0	33	4.4
NEBRASKA	1			0.0	0		0	
NEVADA	1	67	58	27.8	14	35.7	24	7.9
NEW HAMPSHIRE	1		90	36.2	25	36.3	25	0.1
NEW JERSEY	1		4,405	44.2	39	47.8	45	3.6
NEW MEXICO	1		129	31.2	18	39.1	30	7.9
NEW YORK	1		3,797	36.6	26	38.6	29	2.0
NORTH CAROLINA	3	1,423	1,294	33.2	21	37.4	27	4.2
NORTH DAKOTA	1	62	52	34.4	22	34.4	23	0.0
OHIO	3			0.0	0		0	
OKLAHOMA	1	862	682	28.7	15	35.1	23	6.4
OREGON	3		171	26.6	13	32.1	19	5.5
PENNSYLVANIA	1	471	371	33.8	22	41.5	34	7.7
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	1,613	1,416	32.5	20	36.6	26	4.1
SOUTH DAKOTA	1	354	295	35.9	25	39.1	30	3.2
TENNESSEE	3		346	36.4	25	37.9	28	1.5
TEXAS	1	5,782	4,304	33.3	21	39.1	30	5.8
UTAH	1		298	30.6	17	33.4	21	2.8
VERMONT	1		132	21.5	8	29.9	17	8.4
VIRGINIA	1	2,297	1,389	39.4	30	41.5	34	2.1
WASHINGTON	3		14	31.0	18	36.9	26	5.9
WEST VIRGINIA	1		178	33.0	21	38.4	29	5.4
WISCONSIN	1		183	38.3	29	43.3	37	5.0
WYOMING	1		14	34.8	23	46.6	43	11.9
BIA	1	4	4	15.8	5	26.7	13	10.9
TOTAL (WEIGHTED)			61,112	37.1	27	40.1	32	3.0
NUMBER OF STATES REPORTING			44					

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State	Sample Weight	Grade 8 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		459	31.9	19	32.3	20	0.4
ALASKA	1		28	26.7	13	28.0	14	1.2
ARIZONA	3		107	24.5	11	34.6	23	10.1
ARKANSAS	1		869	34.8	23	38.7	29	3.9
CALIFORNIA	1		16,466	40.3	32	40.6	32	0.3
COLORADO	1		36	34.2	22	31.6	19	-2.6
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		30	32.0	19	40.0	31	8.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1	1,158	900	23.6	10	30.2	17	6.6
GEORGIA	1		4,386	29.2	16	32.2	19	3.1
HAWAII	1			0.0	0		0	
IDAHO	1		17	33.0	20	36.5	26	3.5
ILLINOIS	1	2,432	2,200	34.6	23	37.4	27	2.8
INDIANA	1	1,326	1,101	43.5	37	43.2	37	-0.3
IOWA	1			0.0	0		0	
KANSAS	1		408	35.3	24	38.6	29	3.3
KENTUCKY	1	373	322	32.4	20	38.1	28	5.7
LOUISIANA	1		826	33.8	22	37.3	27	3.5
MAINE	1		117	35.7	24	36.7	26	1.0
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		288	33.6	21	39.3	30	5.7
MICHIGAN	1	3,648	3,295	39.6	30	43.5	37	4.0
MINNESOTA	1	24	19	28.7	15	40.5	32	11.8
MISSISSIPPI	3	448	386	38.0	28	42.8	36	4.8
MISSOURI	1	337	239	31.1	18	39.7	31	8.6
MONTANA	1		154	35.1	24	40.4	32	5.3
NEBRASKA	1			0.0	0		0	
NEVADA	1	49	39	29.9	17	36.3	25	6.4
NEW HAMPSHIRE	1		31	30.8	18	23.9	10	-6.9
NEW JERSEY	1		5,125	42.6	36	46.5	43	3.9
NEW MEXICO	1		114	33.6	21	37.3	27	3.6
NEW YORK	1		3,650	34.3	22	37.6	27	3.3
NORTH CAROLINA	3	1,023	914	31.6	19	36.4	25	4.8
NORTH DAKOTA	1	40	35	37.8	28	38.7	29	0.9
OHIO	3			0.0	0		0	
OKLAHOMA	1	795	655	29.0	15	33.8	22	4.9
OREGON	3		200	24.6	11	29.1	16	4.5
PENNSYLVANIA	1	336	264	30.4	17	37.4	27	7.0
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	1,430	1,250	33.3	21	36.1	25	2.8
SOUTH DAKOTA	1	253	224	35.4	24	38.2	28	2.8
TENNESSEE	3		450	34.9	23	36.4	25	1.5
TEXAS	1	5,294	3,539	33.9	22	35.7	24	1.8
UTAH	1		235	29.0	15	30.0	17	1.0
VERMONT	1		101	31.7	19	32.8	20	1.1
VIRGINIA	1	872	334	42.7	36	44.3	39	1.6
WASHINGTON	3		12	29.9	17	32.3	20	2.4
WEST VIRGINIA	1		270	37.5	27	39.7	31	2.2
WISCONSIN	1		528	37.4	27	40.6	32	3.2
WYOMING	1		39	40.8	33	46.0	42	5.2
BIA	1	6	5	21.3	8	14.4	4	-6.9
TOTAL (WEIGHTED)			54,364	36.5	26	39.0	30	2.5
NUMBER OF STATES REPORTING			44					

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State	Sample Weight	Grade 9 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		74	31.8	19	31.0	18	-0.8
ALASKA	1		1	35.0	23	29.0	15	-6.0
ARIZONA	3			0.0	0		0	
ARKANSAS	1		317	33.4	21	37.8	28	4.4
CALIFORNIA	1		7,281	41.1	33	40.9	33	-0.2
COLORADO	1		10	34.9	23	30.5	17	-4.4
CONNECTICUT	1			0.0	0		0	
DELAWARE	1			0.0	0		0	
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		642	25.0	11	29.9	17	4.9
HAWAII	1			0.0	0		0	
IDAHO	1		1	37.7	28	45.0	40	7.3
ILLINOIS	1			0.0	0		0	
INDIANA	1	11	9	36.0	25	30.0	17	-6.0
IOWA	1			0.0	0		0	
KANSAS	1		413	33.2	21	36.6	26	3.4
KENTUCKY	1	49	37	29.9	17	31.4	18	1.5
LOUISIANA	1		639	34.1	22	35.5	24	1.4
MAINE	1		11	32.0	19	28.0	14	-4.0
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		37	24.7	11	27.6	14	2.9
MICHIGAN	1	1,098	154	28.0	14	29.2	16	1.1
MINNESOTA	1	19	8	34.0	22	35.9	25	1.9
MISSISSIPPI	3	31	24	32.6	20	37.0	26	4.4
MISSOURI	1			0.0	0		0	
MONTANA	1		77	35.9	25	37.4	27	1.5
NEBRASKA	1			0.0	0		0	
NEVADA	1			0.0	0		0	
NEW HAMPSHIRE	1		15	39.2	30	38.0	28	-1.2
NEW JERSEY	1		3,884	42.6	36	45.6	41	3.0
NEW MEXICO	1		57	32.7	20	31.9	19	-0.8
NEW YORK	1		2,488	44.3	39	53.1	55	8.8
NORTH CAROLINA	3	864	715	33.9	22	37.2	27	3.3
NORTH DAKOTA	1	9	6	33.1	21	37.3	27	4.2
OHIO	3			0.0	0		0	
OKLAHOMA	1	91	68	30.2	17	35.4	24	5.2
OREGON	3		73	34.1	22	34.5	23	0.4
PENNSYLVANIA	1	80	74	30.3	17	43.8	38	13.5
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	481	420	28.4	15	26.9	13	-1.5
SOUTH DAKOTA	1	47	46	38.1	28	41.0	33	2.9
TENNESSEE	3		5	13.1	4	20.4	8	7.3
TEXAS	1	2,115	1,184	32.3	20	38.1	28	5.8
UTAH	1		215	25.7	12	35.3	24	9.6
VERMONT	1		14	38.6	29	35.7	24	-2.9
VIRGINIA	1	28	26	27.0	13	41.0	33	14.0
WASHINGTON	3			0.0	0		0	
WEST VIRGINIA	1			0.0	0		0	
WISCONSIN	1		244	33.5	21	36.9	26	3.4
WYOMING	1		8	31.0	18	40.4	32	9.4
BIA	1	54	7	16.3	5	13.6	4	-2.7
TOTAL (WEIGHTED)			20,982	38.6	29	41.3	34	2.7
NUMBER OF STATES REPORTING			36					

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State	Sample Weight	Grade 10 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		29	30.4	17	32.9	20	2.5
ALASKA	1		7	26.1	12	22.4	9	-3.7
ARIZONA	3		22	24.1	10	24.1	10	0.0
ARKANSAS	1		66	31.2	18	33.0	21	1.8
CALIFORNIA	1		8,111	41.2	33	41.5	34	0.3
COLORADO	1		2	20.0	7	7.5	2	-12.5
CONNECTICUT	1			0.0	0		0	
DELAWARE	1			0.0	0		0	
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		216	27.5	14	32.3	20	4.9
HAWAII	1			0.0	0		0	
IDAHO	1			0.0	0		0	
ILLINOIS	1			0.0	0		0	
INDIANA	1	4	3	35.0	23	39.0	30	4.0
IOWA	1			0.0	0		0	
KANSAS	1		150	33.0	21	36.1	25	3.1
KENTUCKY	1	40	29	20.3	7	30.0	17	9.7
LOUISIANA	1		301	26.4	13	28.4	15	2.0
MAINE	1			0.0	0		0	
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1			0.0	0		0	
MICHIGAN	1	119	51	30.4	17	31.0	18	0.6
MINNESOTA	1			0.0	0		0	
MISSISSIPPI	3	26	22	42.2	35	43.0	37	0.8
MISSOURI	1			0.0	0		0	
MONTANA	1		51	34.6	23	34.0	22	-0.6
NEBRASKA	1			0.0	0		0	
NEVADA	1			0.0	0		0	
NEW HAMPSHIRE	1		1	23.0	10	20.0	7	-3.0
NEW JERSEY	1		3,288	38.8	29	43.2	37	4.4
NEW MEXICO	1		5	24.9	11	24.6	11	-0.3
NEW YORK	1		267	38.0	28	39.7	31	1.7
NORTH CAROLINA	3			0.0	0		0	
NORTH DAKOTA	1			0.0	0		0	
OHIO	3			0.0	0		0	
OKLAHOMA	1	43	38	21.9	9	26.9	13	5.0
OREGON	3		33	36.0	25	43.8	38	7.8
PENNSYLVANIA	1	9	9	18.7	6	31.9	19	13.2
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	589	518	23.0	10	27.8	14	4.8
SOUTH DAKOTA	1			0.0	0		0	
TENNESSEE	3		2	20.4	8	13.1	4	-7.3
TEXAS	1	1,541	855	34.5	23	37.5	27	3.0
UTAH	1		122	25.9	12	29.5	16	3.7
VERMONT	1		21	22.0	9	26.7	13	4.8
VIRGINIA	1			0.0	0		0	
WASHINGTON	3			0.0	0		0	
WEST VIRGINIA	1			0.0	0		0	
WISCONSIN	1		169	31.9	19	32.5	20	0.6
WYOMING	1		11	32.7	20	47.2	44	14.5
BIA	1	10	8	16.0	5	23.8	10	7.8
TOTAL (WEIGHTED)			14,590	38.3	29	40.2	32	1.9
NUMBER OF STATES REPORTING			29					

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State	Sample Weight	Grade 11 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		18	23.8	10	18.7	6	-5.1
ALASKA	1		5	12.8	3	16.8	5	4.0
ARIZONA	3		10	27.8	14	29.4	16	1.6
ARKANSAS	1		34	23.1	10	29.2	16	6.1
CALIFORNIA	1		5,807	42.8	36	43.8	38	1.0
COLORADO	1		2	31.0	18	19.0	7	-12.0
CONNECTICUT	1			0.0	0		0	
DELAWARE	1			0.0	0		0	
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		25	19.9	7	17.6	6	-2.4
HAWAII	1			0.0	0		0	
IDAHO	1			0.0	0		0	
ILLINOIS	1			0.0	0		0	
INDIANA	1	4	4	37.0	26	37.0	26	0.0
IOWA	1			0.0	0		0	
KANSAS	1		55	34.3	22	40.4	32	6.1
KENTUCKY	1	2	1	44.0	38	34.0	22	-10.0
LOUISIANA	1		145	29.8	16	33.1	21	3.3
MAINE	1			0.0	0		0	
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1			0.0	0		0	
MICHIGAN	1	23	11	36.5	25	39.9	31	3.4
MINNESOTA	1			0.0	0		0	
MISSISSIPPI	3			0.0	0		0	
MISSOURI	1			0.0	0		0	
MONTANA	1		22	38.2	28	38.5	29	0.3
NEBRASKA	1			0.0	0		0	
NEVADA	1			0.0	0		0	
NEW HAMPSHIRE	1			0.0	0		0	
NEW JERSEY	1		1,020	31.2	18	36.8	26	5.6
NEW MEXICO	1		4	25.0	11	32.0	19	7.0
NEW YORK	1		113	35.0	23	37.1	27	2.1
NORTH CAROLINA	3			0.0	0		0	
NORTH DAKOTA	1			0.0	0		0	
OHIO	3			0.0	0		0	
OKLAHOMA	1	31	30	30.1	17	34.3	22	4.2
OREGON	3		13	36.7	26	36.4	25	-0.3
PENNSYLVANIA	1			0.0	0		0	
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	179	166	21.4	8	26.6	13	5.2
SOUTH DAKOTA	1			0.0	0		0	
TENNESSEE	3		2	33.7	22	29.1	16	-4.6
TEXAS	1	907	544	30.3	17	36.2	25	5.9
UTAH	1		82	25.3	12	32.3	20	7.0
VERMONT	1		4	22.8	9	24.3	11	1.5
VIRGINIA	1			0.0	0		0	
WASHINGTON	3			0.0	0		0	
WEST VIRGINIA	1			0.0	0		0	
WISCONSIN	1		7	41.0	33	46.4	43	5.4
WYOMING	1			0.0	0		0	
BIA	1	10	7	24.0	10	22.4	9	-1.6
TOTAL (WEIGHTED)			8,195	39.1	30	41.2	33	2.1
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State	Sample Weight	Grade 12 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		1	1.0	1	1.0	1	0.0
ALASKA	1			0.0	0		0	
ARIZONA	3		3	16.9	5	27.3	14	10.4
ARKANSAS	1		10	24.2	11	16.0	5	-8.2
CALIFORNIA	1		2,135	41.5	34	42.3	35	0.8
COLORADO	1			0.0	0		0	
CONNECTICUT	1			0.0	0		0	
DELAWARE	1			0.0	0		0	
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		1	26.0	12	19.0	7	-7.0
HAWAII	1			0.0	0		0	
IDAHO	1			0.0	0		0	
ILLINOIS	1			0.0	0		0	
INDIANA	1			0.0	0		0	
IOWA	1			0.0	0		0	
KANSAS	1		16	38.6	29	41.2	33	2.6
KENTUCKY	1			0.0	0		0	
LOUISIANA	1		70	26.7	13	30.4	17	3.7
MAINE	1			0.0	0		0	
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1			0.0	0		0	
MICHIGAN	1	10	6	51.0	51	42.0	35	-9.0
MINNESOTA	1			0.0	0		0	
MISSISSIPPI	3			0.0	0		0	
MISSOURI	1			0.0	0		0	
MONTANA	1		9	45.7	41	43.0	37	-2.7
NEBRASKA	1			0.0	0		0	
NEVADA	1			0.0	0		0	
NEW HAMPSHIRE	1			0.0	0		0	
NEW JERSEY	1		709	29.5	16	33.6	21	4.1
NEW MEXICO	1		3	39.1	30	45.0	40	5.9
NEW YORK	1		53	32.3	20	36.8	26	4.5
NORTH CAROLINA	3			0.0	0		0	
NORTH DAKOTA	1			0.0	0		0	
OHIO	3			0.0	0		0	
OKLAHOMA	1	30	29	29.3	16	35.5	24	6.2
OREGON	3		4	8.5	2	28.5	15	20.0
PENNSYLVANIA	1			0.0	0		0	
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	222	186	20.2	7	32.3	20	12.1
SOUTH DAKOTA	1			0.0	0		0	
TENNESSEE	3			0.0	0		0	
TEXAS	1	529	273	33.1	21	35.7	24	2.6
UTAH	1		47	28.5	15	32.3	20	3.8
VERMONT	1		2	18.0	6	41.7	34	23.7
VIRGINIA	1			0.0	0		0	
WASHINGTON	3			0.0	0		0	
WEST VIRGINIA	1			0.0	0		0	
WISCONSIN	1		7	47.3	44	48.1	46	0.8
WYOMING	1			0.0	0		0	
BIA	1	8	8	17.8	6	20.5	8	2.7
TOTAL (WEIGHTED)			3,587	36.4	25	38.8	29	2.4
NUMBER OF STATES REPORTING			20					

Table D.12

Mathematics Achievement Information for Chapter 1 Participants Tested on a Fall-Spring Cycle, by Grade and State -- 1986-87

1986-87 Chapter 1
Fall-Spring Math

State	Sample Weight	Grade 2 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		539	34.6	23	44.3	39	9.7
ALASKA	1		19	33.0	20	47.7	45	14.8
ARIZONA	3			0.0	0		0	
ARKANSAS	1		580	38.2	28	46.9	44	8.7
CALIFORNIA	1		6,196	33.5	21	46.9	44	13.4
COLORADO	1		200	33.1	21	48.8	47	15.7
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		63	41.0	37	53.0	55	10.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		3,182	38.5	29	47.3	44	8.7
HAWAII	1		408	27.6	14	46.1	42	18.5
IDAHO	1		318	32.4	20	47.5	45	15.2
ILLINOIS	1	1,365	1,120	33.1	21	45.0	40	11.9
INDIANA	1	1,709	1,408	35.5	24	45.3	41	9.8
IOWA	1	1,221	905	36.2	25	45.5	41	9.3
KANSAS	1		658	32.6	20	51.5	52	18.9
KENTUCKY	1	1,134	879	34.2	22	47.0	44	12.8
LOUISIANA	1		3,760	32.6	20	41.7	34	9.1
MAINE	1		412	36.2	25	46.5	43	10.3
MARYLAND	1		4,135	34.9	23	40.8	33	5.9
MASSACHUSETTS	1		1,815	37.5	27	48.9	48	11.4
MICHIGAN	1	1,195	948	32.5	20	44.0	38	11.5
MINNESOTA	1	5,557	4,498	29.3	16	45.4	41	16.1
MISSISSIPPI	3	623	555	26.9	13	41.2	33	14.3
MISSOURI	1			0.0	0		0	
MONTANA	1		242	35.1	24	48.8	47	13.7
NEBRASKA	1		1,088	37.5	27	49.2	48	11.7
NEVADA	1	212	141	45.4	41	69.2	81	23.8
NEW HAMPSHIRE	1		197	30.7	18	46.3	43	15.6
NEW JERSEY	1		3,594	35.4	24	48.6	47	13.2
NEW MEXICO	1		31	17.0	5	38.2	28	21.3
NEW YORK	1		2,875	26.9	13	46.0	42	19.1
NORTH CAROLINA	3	138	115	26.6	13	40.8	33	14.2
NORTH DAKOTA	1	189	128	39.6	30	47.9	45	8.3
OHIO	3		443	33.2	21	51.2	52	18.0
OKLAHOMA	1	1,406	956	32.4	20	44.2	39	11.8
OREGON	3		163	31.3	18	49.4	48	18.1
PENNSYLVANIA	1	4,175	3,836	31.3	18	49.5	49	18.2
RHODE ISLAND	1		105	26.6	13	44.0	38	17.4
SOUTH CAROLINA	1			0.0	0		0	
SOUTH DAKOTA	1	31	28	40.5	32	52.7	55	12.2
TENNESSEE	3		448	35.7	24	49.5	49	13.8
TEXAS	1			0.0	0		0	
UTAH	1		53	28.6	15	51.9	53	23.2
VERMONT	1		68	24.0	10	40.5	32	16.4
VIRGINIA	1	3,686	3,273	35.3	24	43.2	37	7.9
WASHINGTON	3		240	35.6	24	50.6	51	15.0
WEST VIRGINIA	1		569	32.5	20	46.3	43	13.8
WISCONSIN	1		711	40.7	33	50.4	50	9.7
WYOMING	1		115	27.8	14	42.8	36	15.0
BIA	1	825	651	27.5	14	32.6	20	5.1
TOTAL (WEIGHTED)			56,239	33.3	21	45.9	42	12.6
NUMBER OF STATES REPORTING			45					

Table D.12 (Cont)

1986-87 Chapter 1
Fall-Spring Math

State	Sample Weight	Grade 3 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		515	31.3	18	38.8	29	7.5
ALASKA	1		73	27.2	14	36.5	26	9.3
ARIZONA	3		46	30.4	17	41.8	34	11.4
ARKANSAS	1		503	32.5	20	44.0	38	11.5
CALIFORNIA	1		5,382	31.8	19	44.2	39	12.4
COLORADO	1		255	33.5	21	45.3	41	11.8
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		54	32.0	19	55.0	59	23.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		2,946	35.9	25	42.0	35	6.1
HAWAII	1		361	26.7	13	41.2	33	14.5
IDAHO	1		366	31.2	18	44.8	40	13.7
ILLINOIS	1	1,944	1,625	32.8	20	42.1	35	9.3
INDIANA	1	2,308	1,925	33.3	21	43.9	38	10.6
IOWA	1	1,162	959	35.7	24	44.1	39	8.4
KANSAS	1		642	32.1	19	48.6	47	16.5
KENTUCKY	1	1,654	1,320	32.9	20	44.0	38	11.1
LOUISIANA	1		3,627	32.2	19	40.1	32	8.0
MAINE	1		503	33.8	22	44.2	39	10.4
MARYLAND	1		4,086	39.1	30	40.6	32	1.5
MASSACHUSETTS	1		2,020	34.6	23	47.8	45	13.2
MICHIGAN	1	1,053	894	30.3	17	43.8	38	13.5
MINNESOTA	1	5,279	4,395	28.4	15	43.2	37	14.8
MISSISSIPPI	3	2,413	2,031	31.4	18	43.1	37	11.7
MISSOURI	1			0.0	0		0	
MONTANA	1		352	30.0	17	41.6	34	11.6
NEBRASKA	1		1,125	36.6	26	48.3	46	11.7
NEVADA	1	179	119	32.3	20	44.3	39	12.0
NEW HAMPSHIRE	1		255	30.6	17	48.1	46	17.5
NEW JERSEY	1		4,186	34.7	23	51.3	52	16.6
NEW MEXICO	1		89	21.7	8	39.5	30	17.8
NEW YORK	1		3,547	28.6	15	43.9	38	15.3
NORTH CAROLINA	3	129	117	20.4	8	38.5	29	18.1
NORTH DAKOTA	1	288	255	35.9	25	43.9	38	8.1
OHIO	3		517	31.2	18	46.2	42	15.0
OKLAHOMA	1	1,468	1,007	33.9	22	43.4	37	9.4
OREGON	3		188	25.9	12	43.3	37	17.4
PENNSYLVANIA	1	3,677	3,407	32.7	20	45.7	41	13.0
RHODE ISLAND	1		179	29.0	15	41.0	33	12.0
SOUTH CAROLINA	1			0.0	0		0	
SOUTH DAKOTA	1	28	27	41.7	34	51.0	51	9.3
TENNESSEE	3		536	31.6	19	41.7	34	10.1
TEXAS	1			0.0	0		0	
UTAH	1		41	29.1	16	54.6	58	25.4
VERMONT	1		130	25.4	12	45.0	40	19.6
VIRGINIA	1	3,749	3,338	36.5	26	42.5	36	6.0
WASHINGTON	3		344	30.7	18	44.1	39	13.4
WEST VIRGINIA	1		814	32.5	20	40.4	32	7.9
WISCONSIN	1		807	36.5	26	45.9	42	9.4
WYOMING	1		109	28.0	14	38.4	29	10.4
BIA	1	895	733	22.8	9	31.6	19	8.8
TOTAL (WEIGHTED)			63,751	32.6	20	43.7	38	11.1
NUMBER OF STATES REPORTING			46					

Table D.12 (Cont)

1986-87 Chapter 1
Fall-Spring Math

State	Sample Weight	Grade 4 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		641	31.7	19	40.0	31	8.3
ALASKA	1		98	30.9	18	33.3	21	2.4
ARIZONA	3		58	34.4	22	48.2	46	13.8
ARKANSAS	1		532	34.0	22	43.9	38	9.9
CALIFORNIA	1		5,180	32.4	20	43.5	37	11.1
COLORADO	1		268	35.1	24	47.1	44	12.0
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		97	33.0	21	46.0	42	13.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		3,674	37.4	27	39.8	31	2.4
HAWAII	1		503	29.2	16	36.1	25	6.9
IDAHO	1		410	30.7	17	44.2	39	13.5
ILLINOIS	1	2,235	1,925	32.5	20	42.7	36	10.2
INDIANA	1	2,394	2,052	35.1	24	42.7	36	7.6
IOWA	1	1,086	851	38.5	29	48.4	47	9.9
KANSAS	1		679	33.4	21	49.2	48	15.8
KENTUCKY	1	2,632	2,201	33.4	21	45.1	40	11.7
LOUISIANA	1		3,504	32.2	19	39.9	31	7.7
MAINE	1		488	33.1	21	41.5	34	8.4
MARYLAND	1		2,567	38.1	28	41.1	33	3.0
MASSACHUSETTS	1		1,984	35.9	25	47.1	44	11.2
MICHIGAN	1	789	625	32.2	19	42.8	36	10.6
MINNESOTA	1	3,821	3,201	28.5	15	43.0	37	14.5
MISSISSIPPI	3	3,397	2,889	31.0	18	39.4	30	8.4
MISSOURI	1			0.0	0		0	
MONTANA	1		368	34.4	23	44.8	40	10.4
NEBRASKA	1		1,237	36.3	25	48.2	46	11.9
NEVADA	1	171	97	28.5	15	49.3	48	20.8
NEW HAMPSHIRE	1		215	33.1	21	45.2	40	12.1
NEW JERSEY	1		3,702	35.7	24	47.5	45	11.8
NEW MEXICO	1		152	29.5	16	40.1	31	10.6
NEW YORK	1		3,251	31.0	18	44.3	39	13.3
NORTH CAROLINA	3	123	113	20.8	8	38.2	28	17.5
NORTH DAKOTA	1	290	251	35.1	24	43.6	37	8.5
OHIO	3		823	27.5	14	44.5	39	17.0
OKLAHOMA	1	1,586	1,140	32.5	20	43.8	38	11.3
OREGON	3		202	30.8	18	43.2	37	12.4
PENNSYLVANIA	1	3,160	2,977	32.4	20	45.1	40	12.7
RHODE ISLAND	1		301	34.4	23	47.1	44	12.7
SOUTH CAROLINA	1			0.0	0		0	
SOUTH DAKOTA	1	59	54	33.9	22	41.6	34	7.7
TENNESSEE	3		607	32.4	20	40.4	32	8.0
TEXAS	1			0.0	0		0	
UTAH	1		54	29.0	15	48.0	46	19.0
VERMONT	1		109	27.8	14	41.9	35	14.1
VIRGINIA	1	3,259	2,961	36.4	25	44.4	39	8.0
WASHINGTON	3		358	34.6	23	44.2	39	9.6
WEST VIRGINIA	1		1,143	34.1	22	43.3	37	9.2
WISCONSIN	1		740	36.6	26	46.4	43	9.8
WYOMING	1		99	31.7	19	43.5	37	11.9
BIA	1	869	717	25.3	11	33.3	21	8.0
TOTAL (WEIGHTED)			65,625	33.0	21	43.0	37	10.0
NUMBER OF STATES REPORTING			46					

Table D.12 (Cont)

1986-87 Chapter 1
Fall-Spring Math

State	Sample Weight	Grade 5 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		474	32.4	20	38.4	29	6.0
ALASKA	1		99	31.6	19	37.9	28	6.3
ARIZONA	3		91	31.9	19	44.5	39	12.6
ARKANSAS	1		508	29.6	16	40.5	32	10.9
CALIFORNIA	1		4,861	33.1	21	42.0	35	8.9
COLORADO	1		218	33.9	22	46.0	42	12.1
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		105	34.0	22	46.0	42	12.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		3,048	35.6	24	38.9	29	3.3
HAWAII	1		266	32.4	20	40.4	32	8.0
IDAHO	1		356	31.1	18	43.7	38	12.6
ILLINOIS	1	2,197	1,975	31.4	18	40.3	32	8.9
INDIANA	1	2,083	1,756	33.9	22	40.7	33	6.8
IOWA	1	945	734	40.8	33	49.7	49	8.9
KANSAS	1		530	34.6	23	48.1	46	13.5
KENTUCKY	1	2,676	2,272	35.5	24	45.9	42	10.4
LOUISIANA	1		3,219	32.6	20	39.9	31	7.3
MAINE	1		514	34.2	22	38.2	28	4.0
MARYLAND	1		1,591	40.4	32	42.1	35	1.7
MASSACHUSETTS	1		1,656	35.6	24	44.6	39	9.0
MICHIGAN	1	674	567	31.6	19	39.6	31	8.0
MINNESOTA	1	2,617	2,141	29.2	16	41.3	34	12.1
MISSISSIPPI	3	3,002	2,717	32.6	20	39.9	31	7.3
MISSOURI	1			0.0	0		0	
MONTANA	1		337	33.2	21	42.7	36	9.5
NEBRASKA	1		928	37.8	28	46.9	44	9.1
NEVADA	1	131	71	34.0	22	47.7	45	13.7
NEW HAMPSHIRE	1		199	31.2	18	43.8	38	12.6
NEW JERSEY	1		3,910	36.7	26	47.1	44	10.4
NEW MEXICO	1		149	27.1	13	38.6	29	11.5
NEW YORK	1		2,793	32.2	19	42.3	35	10.1
NORTH CAROLINA	3	97	79	25.1	11	35.5	24	10.4
NORTH DAKOTA	1	242	211	33.1	21	44.0	38	10.9
OHIO	3		684	29.2	16	42.2	35	13.0
OKLAHOMA	1	1,438	1,064	32.6	20	40.6	32	8.0
OREGON	3		173	28.8	15	39.0	30	10.2
PENNSYLVANIA	1	3,128	2,964	31.8	19	43.8	38	12.0
RHODE ISLAND	1		267	31.7	19	45.8	42	14.1
SOUTH CAROLINA	1			0.0	0		0	
SOUTH DAKOTA	1	48	45	37.5	27	41.7	34	4.2
TENNESSEE	3		1,132	35.5	24	41.7	34	6.2
TEXAS	1			0.0	0		0	
UTAH	1		44	31.8	19	43.7	38	11.9
VERMONT	1		81	25.3	12	35.5	24	10.2
VIRGINIA	1	3,192	2,884	38.5	29	44.8	40	6.3
WASHINGTON	3		360	31.2	18	40.6	32	9.4
WEST VIRGINIA	1		930	32.5	20	39.0	30	6.5
WISCONSIN	1		647	34.7	23	44.4	39	9.7
WYOMING	1		83	31.9	19	43.9	38	12.0
BIA	1	763	562	27.0	13	33.7	22	6.7
TOTAL (WEIGHTED)			58,977	33.5	21	42.1	35	8.6
NUMBER OF STATES REPORTING			46					

Table D.12 (Cont)

1986-87 Chapter 1
Fall-Spring Math

State	Sample Weight	Grade 6 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		425	33.0	21	41.8	34	8.8
ALASKA	1		55	29.4	16	31.8	19	2.4
ARIZONA	3		81	27.2	14	44.5	39	17.3
ARKANSAS	1		421	32.4	20	43.0	37	10.6
CALIFORNIA	1		3,604	33.7	22	43.1	37	9.4
COLORADO	1		127	35.1	24	44.7	40	9.6
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		21	36.0	25	43.0	37	7.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		3,750	31.7	19	38.9	29	7.2
HAWAII	1		221	36.2	25	43.7	38	7.5
IDAHO	1		277	31.4	18	43.3	37	11.9
ILLINOIS	1	2,021	1,858	35.8	25	41.3	34	5.5
INDIANA	1	1,694	1,362	33.0	21	39.5	30	6.5
IOWA	1	802	594	40.6	32	48.2	46	7.6
KANSAS	1		478	33.7	22	45.4	41	11.7
KENTUCKY	1	1,995	1,655	33.8	22	44.2	39	10.4
LOUISIANA	1		2,618	35.0	23	39.8	31	4.8
MAINE	1		420	36.1	25	41.3	34	5.2
MARYLAND	1		332	44.7	39	46.9	44	2.2
MASSACHUSETTS	1		1,282	35.9	25	45.3	41	9.4
MICHIGAN	1	699	576	32.9	20	41.6	34	8.7
MINNESOTA	1	1,759	1,445	30.3	17	37.7	28	7.4
MISSISSIPPI	3	2,525	2,153	30.7	17	38.8	29	8.1
MISSOURI	1			0.0	0		0	
MONTANA	1		308	33.7	22	42.5	36	8.8
NEBRASKA	1		842	39.5	30	46.1	42	6.6
NEVADA	1	141	74	26.0	12	33.4	21	7.4
NEW HAMPSHIRE	1		136	29.2	16	41.7	34	12.5
NEW JERSEY	1		3,993	37.6	27	48.4	47	10.8
NEW MEXICO	1		117	31.0	18	41.7	34	10.6
NEW YORK	1		2,596	31.7	19	43.4	37	11.7
NORTH CAROLINA	3	77	61	15.3	4	20.1	7	4.8
NORTH DAKOTA	1	268	239	30.9	18	41.2	33	10.2
OHIO	3		438	26.6	13	39.6	31	13.0
OKLAHOMA	1	1,364	1,021	33.8	22	41.1	33	7.3
OREGON	3		102	28.7	15	42.0	35	13.3
PENNSYLVANIA	1	2,947	2,795	32.1	19	42.7	36	10.6
RHODE ISLAND	1		213	33.4	21	44.2	39	10.8
SOUTH CAROLINA	1			0.0	0		0	
SOUTH DAKOTA	1	43	37	39.5	30	46.0	42	6.5
TENNESSEE	3		933	37.4	27	43.6	38	6.2
TEXAS	1			0.0	0		0	
UTAH	1		22	27.5	14	38.6	29	11.1
VERMONT	1		79	30.0	17	37.2	27	7.2
VIRGINIA	1	2,268	2,007	38.5	29	45.1	40	6.6
WASHINGTON	3		249	31.5	19	42.1	35	10.6
WEST VIRGINIA	1		620	34.1	22	41.3	34	7.2
WISCONSIN	1		518	34.8	23	45.1	40	10.3
WYOMING	1		88	29.6	16	42.0	35	12.4
BIA	1	809	562	27.1	13	33.1	21	6.0
TOTAL (WEIGHTED)			48,398	33.4	21	42.0	35	8.6
NUMBER OF STATES REPORTING			46					

Table D.12 (Cont)

1986-87 Chapter 1
Fall-Spring Math

State	Sample Weight	Grade 7 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		326	32.4	20	36.9	26	4.5
ALASKA	1		1	1.0	1	6.7	2	5.7
ARIZONA	3		114	26.0	12	40.4	32	14.4
ARKANSAS	1		335	31.2	18	43.2	37	12.0
CALIFORNIA	1		3,161	33.5	21	39.9	31	6.4
COLORADO	1		214	34.8	23	41.9	35	7.1
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		20	44.0	38	50.0	50	6.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		4,072	30.9	18	36.0	25	5.2
HAWAII	1		93	35.5	24	37.7	28	2.2
IDAHO	1		204	35.9	25	42.0	35	6.1
ILLINOIS	1	1,470	1,339	38.2	28	44.5	39	6.3
INDIANA	1	1,051	851	33.7	21	37.3	27	3.6
IOWA	1	435	284	42.8	36	46.8	44	4.0
KANSAS	1		211	34.9	23	44.0	38	9.1
KENTUCKY	1	1,718	1,415	32.7	20	40.2	32	7.5
LOUISIANA	1		1,121	34.4	23	41.6	34	7.2
MAINE	1		282	31.4	18	36.4	25	5.0
MARYLAND	1		27	45.2	41	45.7	41	0.5
MASSACHUSETTS	1		1,007	32.8	20	39.9	31	7.1
MICHIGAN	1	479	392	28.1	14	36.0	25	7.9
MINNESOTA	1	297	254	32.5	20	41.3	34	8.8
MISSISSIPPI	3	1,465	1,257	34.2	22	38.9	29	4.8
MISSOURI	1			0.0	0		0	
MONTANA	1		290	36.2	25	42.8	36	6.6
NEBRASKA	1		317	38.2	28	46.2	42	8.0
NEVADA	1	193	119	33.0	21	42.4	35	9.4
NEW HAMPSHIRE	1		146	31.8	19	43.7	38	11.9
NEW JERSEY	1		3,956	39.2	30	45.4	41	6.2
NEW MEXICO	1		179	32.4	20	44.5	39	12.2
NEW YORK	1		1,969	35.4	24	42.6	36	7.2
NORTH CAROLINA	3	768	596	26.4	13	31.7	19	5.2
NORTH DAKOTA	1	129	97	28.5	15	37.8	28	9.3
OHIO	3		86	29.7	16	40.7	33	11.0
OKLAHOMA	1	1,185	791	31.9	19	37.1	27	5.2
OREGON	3		73	25.8	12	36.3	25	10.5
PENNSYLVANIA	1	1,766	1,644	31.8	19	38.8	29	7.0
RHODE ISLAND	1		145	33.2	21	37.7	28	4.5
SOUTH CAROLINA	1			0.0	0		0	
SOUTH DAKOTA	1	18	17	31.9	19	43.8	38	11.9
TENNESSEE	3		566	39.1	30	42.5	36	3.4
TEXAS	1			0.0	0		0	
UTAH	1		4	22.8	9	23.3	10	0.5
VERMONT	1		45	31.4	18	36.3	25	4.9
VIRGINIA	1	816	632	32.9	20	40.3	32	7.4
WASHINGTON	3		144	22.7	9	32.5	20	9.8
WEST VIRGINIA	1		152	26.2	12	36.2	25	10.0
WISCONSIN	1		1,458	34.7	23	39.7	31	5.0
WYOMING	1		6	31.1	18	51.8	53	20.7
BIA	1	737	521	28.1	14	34.3	22	6.2
TOTAL (WEIGHTED)			35,799	33.5	21	39.7	31	6.2
NUMBER OF STATES REPORTING			46					

Table D.12 (Cont)

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Fall-Spring Math

State	Sample Weight	Grade 8 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		124	35.3	24	39.5	30	4.2
ALASKA	1		4	27.2	13	30.0	17	2.9
ARIZONA	3		84	24.4	11	39.3	30	14.9
ARKANSAS	1		279	35.4	24	40.8	33	5.4
CALIFORNIA	1		2940	34.3	22	38.3	29	4.0
COLORADO	1		153	35.2	24	40.4	32	5.2
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		20	33.0	21	45.0	40	12.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		1561	34.4	23	37.1	26	2.6
HAWAII	1		146	32.2	19	38.7	29	6.5
IDAHO	1		124	34.4	23	41.7	34	7.3
ILLINOIS	1	839	717	38.9	29	45.4	41	6.5
INDIANA	1	780	557	33.4	21	36.8	26	3.4
IOWA	1	363	237	43.1	37	47.9	46	4.8
KANSAS	1		126	35.2	24	42.9	36	7.7
KENTUCKY	1	1,633	1397	32.4	20	38.9	29	6.5
LOUISIANA	1		950	33.2	21	37.5	27	4.3
MAINE	1		209	32.1	19	36.1	25	4.0
MARYLAND	1		38	45.1	40	46.2	42	1.1
MASSACHUSETTS	1		815	31.6	19	37.6	27	6.0
MICHIGAN	1	416	315	31.3	18	35.8	25	4.6
MINNESOTA	1	188	167	30.6	17	37.3	27	6.7
MISSISSIPPI	3	1,437	1216	32.6	20	37.6	27	5.0
MISSOURI	1			0.0	0		0	
MONTANA	1		272	38.9	29	43.5	37	4.6
NEBRASKA	1		242	37.9	28	43.4	37	5.5
NEVADA	1	279	134	32.5	20	43.0	37	10.5
NEW HAMPSHIRE	1		98	33.2	21	41.7	34	8.5
NEW JERSEY	1		4020	39.6	31	45.1	40	5.5
NEW MEXICO	1		93	34.3	22	47.5	45	13.1
NEW YORK	1		1665	36.6	26	42.3	35	5.7
NORTH CAROLINA	3	612	554	24.9	11	31.8	19	6.9
NORTH DAKOTA	1	59	47	30.9	18	41.3	34	10.5
OHIO	3		72	30.9	18	40.9	33	10.0
OKLAHOMA	1	1,201	868	30.8	18	37.1	27	6.3
OREGON	3		72	26.4	13	35.2	24	8.8
PENNSYLVANIA	1	1,563	1449	32.6	20	40.4	32	7.8
RHODE ISLAND	1		142	32.2	19	37.7	28	5.5
SOUTH CAROLINA	1			0.0	0		0	
SOUTH DAKOTA	1	20	19	35.5	24	37.6	27	2.1
TENNESSEE	3		359	38.2	28	42.2	35	4.0
TEXAS	1			0.0	0		0	
UTAH	1		23	37.2	27	37.9	28	0.7
VERMONT	1		41	28.9	15	31.6	19	2.8
VIRGINIA	1	417	285	29.9	17	32.3	20	2.4
WASHINGTON	3		88	24.5	11	32.7	20	8.2
WEST VIRGINIA	1		97	30.6	17	36.9	26	6.3
WISCONSIN	1		562	36.7	26	44.4	39	7.7
WYOMING	1		10	39.2	30	42.7	36	3.5
BIA	1	643	452	27.4	14	31.1	18	3.7
TOTAL (WEIGHTED)			28,139	33.9	22	39.4	30	5.5
NUMBER OF STATES REPORTING			46					

Table D.12 (Cont)

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Fall-Spring Math

State	Sample Weight	Grade 9 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2			0.0	0		0	
ALASKA	1		2	11.8	1	40.0	31	28.2
ARIZONA	3		112	23.1	10	30.9	18	7.8
ARKANSAS	1		166	31.3	18	35.4	24	4.1
CALIFORNIA	1		6,196	30.3	17	38.3	29	8.0
COLORADO	1		82	30.6	17	39.0	30	8.4
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		14	38.0	28	37.0	26	-1.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		591	30.0	17	30.5	17	0.5
HAWAII	1			0.0	0		0	
IDAHO	1		57	35.9	25	43.6	37	7.7
ILLINOIS	1	1,667	1,264	34.0	22	41.8	34	7.8
INDIANA	1	142	73	32.6	20	41.5	34	8.9
IOWA	1			0.0	0		0	
KANSAS	1		31	36.8	26	44.5	39	7.7
KENTUCKY	1	321	253	36.9	26	42.8	36	5.9
LOUISIANA	1			0.0	0		0	
MAINE	1		21	25.1	11	32.1	19	7.0
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		769	31.0	18	41.0	33	10.0
MICHIGAN	1	320	194	25.2	11	30.6	17	5.4
MINNESOTA	1	41	26	30.1	17	36.8	26	6.7
MISSISSIPPI	3	118	99	34.1	22	37.5	27	3.3
MISSOURI	1			0.0	0		0	
MONTANA	1		168	36.4	25	42.9	36	6.5
NEBRASKA	1		85	41.9	34	44.4	39	2.6
NEVADA	1	191	44	42.7	36	49.7	49	7.0
NEW HAMPSHIRE	1		22	30.1	17	29.5	16	-0.6
NEW JERSEY	1		3,245	40.5	32	43.4	37	2.9
NEW MEXICO	1		15	31.0	18	28.0	14	-3.0
NEW YORK	1		746	34.7	23	41.5	34	6.8
NORTH CAROLINA	3	89	72	21.9	9	30.8	18	8.9
NORTH DAKOTA	1	40	26	40.7	32	43.0	36	2.3
OHIO	3		21	29.9	17	39.9	31	10.0
OKLAHOMA	1	112	80	25.3	11	33.0	20	7.7
OREGON	3		130	22.4	9	28.9	15	6.5
PENNSYLVANIA	1	714	611	32.5	20	37.3	27	4.8
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1			0.0	0		0	
SOUTH DAKOTA	1			0.0	0		0	
TENNESSEE	3		16	26.2	12	32.4	20	6.2
TEXAS	1			0.0	0		0	
UTAH	1		12	16.9	5	25.8	12	9.8
VERMONT	1		39	36.6	26	41.5	34	4.9
VIRGINIA	1	122	102	31.0	18	36.3	25	5.3
WASHINGTON	3		34	27.3	14	35.9	25	8.6
WEST VIRGINIA	1		17	27.4	14	34.3	22	6.9
WISCONSIN	1		269	37.0	26	39.3	30	2.3
WYOMING	1			0.0	0		0	
BIA	1	826	415	27.4	14	31.8	19	4.4
TOTAL (WEIGHTED)			17,055	32.7	20	38.9	29	6.2
NUMBER OF STATES REPORTING			38					

Table D.12 (Cont)

1986-87 Chapter 1
Fall-Spring Math

State	Sample Weight	Grade 10 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		22	31.6	19	34.0	22	2.4
ALASKA	1			0.0	0		0	
ARIZONA	3			0.0	0		0	
ARKANSAS	1		41	39.8	31	45.3	41	5.5
CALIFORNIA	1		2,288	32.8	20	37.5	27	4.7
COLORADO	1		29	33.0	21	38.4	29	5.4
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		11	28.0	14	30.0	17	2.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		70	27.0	13	22.9	9	-4.1
HAWAII	1			0.0	0		0	
IDAHO	1		13	33.5	21	41.1	33	7.6
ILLINOIS	1	430	327	30.9	18	38.4	29	7.5
INDIANA	1	110	46	30.0	17	35.9	25	5.9
IOWA	1			0.0	0		0	
KANSAS	1			0.0	0		0	
KENTUCKY	1	31	22	28.4	15	33.8	22	5.4
LOUISIANA	1			0.0	0		0	
MAINE	1		15	31.1	18	32.1	19	0.9
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		330	30.1	17	37.4	27	7.3
MICHIGAN	1	220	109	28.1	14	32.1	19	3.9
MINNESOTA	1	7	5	33.4	21	41.7	34	8.3
MISSISSIPPI	3	22	20	42.4	35	43.6	38	1.3
MISSOURI	1			0.0	0		0	
MONTANA	1		142	36.0	25	40.7	33	4.7
NEBRASKA	1		19	40.1	31	41.6	34	1.5
NEVADA	1	173	5	20.2	7	20.7	8	0.5
NEW HAMPSHIRE	1		26	29.9	17	43.8	38	13.9
NEW JERSEY	1		3,191	42.1	35	48.1	46	6.0
NEW MEXICO	1		14	27.3	14	27.5	14	0.2
NEW YORK	1		267	29.0	15	35.6	24	6.6
NORTH CAROLINA	3	20	11	18.0	6	22.2	9	4.2
NORTH DAKOTA	1	2	2	43.9	38	39.2	30	-4.7
OHIO	3			0.0	0		0	
OKLAHOMA	1	29	27	26.2	12	34.1	22	7.9
OREGON	3		31	17.1	5	23.3	10	6.2
PENNSYLVANIA	1	331	275	32.0	19	38.4	29	6.4
RHODE ISLAND	1		5	22.6	9	39.8	31	17.2
SOUTH CAROLINA	1	38	30	25.0	11	39.8	31	14.8
SOUTH DAKOTA	1			0.0	0		0	
TENNESSEE	3		7	15.9	5	17.3	6	1.4
TEXAS	1			0.0	0		0	
UTAH	1		7	24.4	11	22.6	9	-1.9
VERMONT	1		1	29.1	16	50.0	50	20.9
VIRGINIA	1	85	74	28.2	15	33.1	21	4.9
WASHINGTON	3		49	31.3	18	40.8	33	9.5
WEST VIRGINIA	1			0.0	0		0	
WISCONSIN	1		109	32.8	20	36.2	25	3.4
WYOMING	1			0.0	0		0	
BIA	1	464	240	23.5	10	29.3	16	5.8
TOTAL (WEIGHTED)			8,124	35.5	24	41.1	33	5.6
NUMBER OF STATES REPORTING			36					

Table D.12 (Cont)

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Fall-Spring Math

State	Sample Weight	Grade 11 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2			0.0	0		0	
ALASKA	1			0.0	0		0	
ARIZONA	3			0.0	0		0	
ARKANSAS	1		30	42.9	36	50.7	51	7.8
CALIFORNIA	1		1288	32.6	20	36.1	25	3.5
COLORADO	1		18	33.6	21	36.5	26	2.9
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		12	33.0	21	34.0	22	1.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		25	25.7	12	16.7	5	-9.0
HAWAII	1			0.0	0		0	
IDAHO	1		11	29.4	16	40.1	31	10.7
ILLINOIS	1	51	34	30.7	18	40.3	32	9.6
INDIANA	1	9	3	45.0	40	44.3	39	-0.7
IOWA	1			0.0	0		0	
KANSAS	1			0.0	0		0	
KENTUCKY	1	17	11	28.4	15	39.9	31	11.5
LOUISIANA	1			0.0	0		0	
MAINE	1		9	24.2	11	35.0	23	10.8
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		153	25.9	12	33.8	22	7.9
MICHIGAN	1	204	76	38.9	29	41.7	34	2.8
MINNESOTA	1			0.0	0		0	
MISSISSIPPI	3	14	14	44.0	38	48.0	46	4.0
MISSOURI	1			0.0	0		0	
MONTANA	1		96	37.5	27	40.7	33	3.2
NEBRASKA	1		9	40.3	32	44.0	38	3.7
NEVADA	1	86	3	7.3	2	19.1	7	11.8
NEW HAMPSHIRE	1		8	24.0	10	47.8	45	23.8
NEW JERSEY	1		616	35.7	24	39.8	31	4.1
NEW MEXICO	1		5	22.2	9	27.5	14	5.3
NEW YORK	1		109	27.4	14	36.6	26	9.2
NORTH CAROLINA	3	28	19	45.3	41	58.4	65	13.1
NORTH DAKOTA	1	1	1	25.3	12	42.5	36	17.2
OHIO	3			0.0	0		0	
OKLAHOMA	1	9	8	21.4	8	31.7	19	10.3
OREGON	3		19	18.3	6	24.6	11	6.3
PENNSYLVANIA	1	121	101	27.9	14	34.4	23	6.5
RHODE ISLAND	1			0.0	0		0	
SOUTH CAROLINA	1	23	21	30.7	18	39.6	31	8.9
SOUTH DAKOTA	1			0.0	0		0	
TENNESSEE	3		4	13.9	4	19.2	7	5.3
TEXAS	1			0.0	0		0	
UTAH	1		3	21.7	8	36.7	26	15.0
VERMONT	1		1	40.1	32	37.7	28	-2.4
VIRGINIA	1	2	2	32.0	19	38.0	28	6.0
WASHINGTON	3			0.0	0		0	
WEST VIRGINIA	1			0.0	0		0	
WISCONSIN	1		39	35.2	24	40.8	33	5.6
WYOMING	1			0.0	0		0	
BIA	1	226	138	23.1	10	28.9	15	5.8
TOTAL (WEIGHTED)			2,990	32.5	20	37.2	27	4.7
NUMBER OF STATES REPORTING			32					

Table D.12 (Cont)

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Fall-Spring Math

State	Sample Weight	Grade 12 Membership	Number Tested	Pretest NCE	Pretest Percentile	Posttest NCE	Posttest Percentile	Gain NCE
ALABAMA	2		5	26.6	13	25.4	12	-1.2
ALASKA	1			0.0	0		0	
ARIZONA	3			0.0	0		0	
ARKANSAS	1		20	28.1	14	36.5	26	8.4
CALIFORNIA	1		295	34.5	23	33.9	22	-0.6
COLORADO	1		15	27.8	14	35.5	24	7.7
CONNECTICUT	1			0.0	0		0	
DELAWARE	1		9	36.0	25	35.0	23	-1.0
DISTRICT OF COLUMBIA	1			0.0	0		0	
FLORIDA	1			0.0	0		0	
GEORGIA	1		10	14.6	4	9.2	2	-5.5
HAWAII	1			0.0	0		0	
IDAHO	1		4	24.8	11	34.0	22	9.3
ILLINOIS	1	14	12	23.6	10	33.9	22	10.3
INDIANA	1	3	2	27.0	13	29.0	15	2.0
IOWA	1			0.0	0		0	
KANSAS	1			0.0	0		0	
KENTUCKY	1	9	7	26.6	13	30.7	18	4.1
LOUISIANA	1			0.0	0		0	
MAINE	1		5	16.6	5	27.6	14	11.0
MARYLAND	1			0.0	0		0	
MASSACHUSETTS	1		100	28.7	15	32.0	19	3.3
MICHIGAN	1	17	9	38.2	28	44.3	39	6.2
MINNESOTA	1			0.0	0		0	
MISSISSIPPI	3	7	7	40.0	31	43.0	37	3.0
MISSOURI	1			0.0	0		0	
MONTANA	1		33	30.9	18	37.7	28	6.8
NEBRASKA	1		5	32.8	20	42.2	35	9.4
NEVADA	1			0.0	0		0	
NEW HAMPSHIRE	1		7	30.0	17	57.3	62	27.3
NEW JERSEY	1		318	34.8	23	39.9	31	5.1
NEW MEXICO	1		2	30.0	17	28.1	14	-1.9
NEW YORK	1		28	23.8	10	30.4	17	6.6
NORTH CAROLINA	3	30	17	23.9	10	33.0	20	9.1
NORTH DAKOTA	1			0.0	0		0	
OHIO	3			0.0	0		0	
OKLAHOMA	1	5	5	30.6	17	39.1	30	8.5
OREGON	3		14	15.1	4	27.6	14	12.5
PENNSYLVANIA	1	71	53	26.0	12	34.0	22	8.0
RHODE ISLAND	1		1	52.0	53	54.0	57	2.0
SOUTH CAROLINA	1	3	3	35.1	24	37.7	28	2.6
SOUTH DAKOTA	1			0.0	0		0	
TENNESSEE	3			0.0	0		0	
TEXAS	1			0.0	0		0	
UTAH	1			0.0	0		0	
VERMONT	1			0.0	0		0	
VIRGINIA	1	76	74	27.6	14	50.2	50	22.6
WASHINGTON	3		17	34.6	23	42.8	36	8.2
WEST VIRGINIA	1			0.0	0		0	
WISCONSIN	1		15	39.6	31	41.0	33	1.4
WYOMING	1			0.0	0		0	
BIA	1	107	67	25.9	12	30.8	18	4.9
TOTAL (WEIGHTED)			1,274	31.0	18	36.4	25	5.4
NUMBER OF STATES REPORTING			30					

APPENDIX E

ADDITIONAL NATIONAL ACHIEVEMENT INFORMATION FOR 1979-80 TO 1986-87

This appendix provides data on the number of students tested and the numbers of states reporting achievement data from 1979-80 to 1986-87. Table E.1 displays the percentages of public school participants who received reading and mathematics and who were tested in these subjects by grade for 1986-87. In Tables E.2 and E.3, the numbers of students tested are presented for annual and fall-spring testing cycles, respectively. Tables E.4 and E.5 present the number of states for each year providing achievement data for annual and fall-spring testing cycles, respectively.

Table E.1

Number of Chapter 1 Public School Participants Receiving Reading and Mathematics Services, and Number of Chapter 1 Students Tested, by Subject Area and by Grade -- 1986-87

Grade	Number Receiving Reading[a/]	Weighted Number Tested for Reading[b/]	Percent	Number Receiving Mathematics[a/]	Weighted Number Tested for Mathematics[b/]	Percent
2	453,314	333,402	74	259,635	140,900	54
3	429,249	322,250	75	250,586	161,921	65
4	395,144	296,083	75	234,330	171,530	73
5	352,400	257,801	73	213,229	159,379	75
6	291,207	206,462	71	179,705	126,156	70
7	219,712	150,530	69	140,496	96,911	69
8	192,646	125,221	65	124,990	82,503	66
9	132,874	61,875	47	92,293	38,037	41
10	90,531	37,407	41	58,360	22,714	39
11	48,247	19,720	41	30,098	11,185	37
12	27,840	10,405	37	18,221	4,861	27
Total	2,633,164	1,821,156	69	1,601,943	1,016,097	63

a/ The following steps were performed to calculate the numbers in these columns: (1) the distribution of public school participants by grade was calculated for each state; (2) the numbers of public school participants receiving reading and receiving mathematics were multiplied by the percentages from step 1 for each grade and for each state; (3) the numbers of participants in pre-K, kindergarten, and first grade, and ungraded participants were subtracted from the totals in step 2; and (4) the national totals for the number receiving reading and the number receiving mathematics were calculated by adding the figures by grade for each state.

b/ Both test cycles combined. In states that provided achievement information based on a sample of school districts, the number tested was weighted to reflect the sample.

Table E.2

Weighted Number Tested on an Annual Cycle, by Subject Area -- 1979-80 to 1986-87

	Reading							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	85,768	89,092	99,168	80,295	94,334	105,048	122,963	160,537
3	109,619	106,715	116,879	93,943	115,490	115,600	139,562	171,646
4	109,512	113,445	117,250	103,054	119,854	119,851	142,803	168,241
5	113,337	109,659	122,490	104,089	121,509	113,339	136,045	148,932
6	108,583	91,682	102,584	91,971	105,084	93,996	108,958	118,373
7	67,623	60,950	68,468	52,094	65,288	61,013	71,886	90,989
8	58,677	55,319	61,404	46,748	65,841	61,433	69,670	76,623
9	30,824	31,578	33,772	23,569	31,349	28,001	33,825	31,256
10	14,654	13,776	13,814	13,671	13,495	13,093	16,370	22,098
11	8,933	10,459	11,015	9,915	7,979	10,594	13,625	12,081
12	7,333	5,650	7,645	6,957	4,506	8,129	7,819	6,273

	Mathematics							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	50,578	46,476	55,366	50,659	54,802	54,436	64,701	84,661
3	65,938	57,177	70,264	61,335	64,677	60,751	74,454	98,170
4	71,178	64,306	69,498	69,147	72,591	67,936	82,208	105,905
5	71,638	66,926	74,847	72,795	77,689	68,143	84,274	100,402
6	69,546	63,538	69,486	65,167	68,247	60,009	69,373	77,758
7	36,802	37,456	45,109	34,944	39,114	35,733	44,545	61,112
8	30,111	35,488	39,276	32,882	45,857	38,002	46,828	54,364
9	16,656	18,795	22,753	17,187	22,635	19,682	22,191	20,982
10	8,165	7,986	8,344	8,835	8,378	9,609	11,157	14,590
11	4,406	6,194	6,924	7,052	5,108	7,515	9,609	8,195
12	3,703	3,936	4,547	5,161	3,352	5,664	6,065	3,587

Table E.3

Weighted Number Tested on a Fall-Spring Cycle, by Subject Area -- 1979-80 to 1986-87

	Reading							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	310,555	257,335	260,782	225,279	184,299	190,022	171,848	172,865
3	293,909	252,292	247,357	195,859	159,604	158,840	144,922	150,604
4	270,892	247,378	237,656	179,675	142,104	142,765	122,679	127,842
5	246,212	225,423	221,809	167,199	122,452	121,827	104,998	108,869
6	212,891	187,367	185,213	143,084	107,539	100,196	83,013	88,089
7	152,468	147,493	135,007	96,557	70,731	73,036	61,270	59,541
8	122,054	119,177	103,858	75,204	50,034	57,374	46,822	48,598
9	66,512	62,151	56,809	46,548	30,824	36,313	33,757	30,619
10	36,123	31,853	29,382	27,897	18,037	19,912	18,649	15,309
11	17,738	16,384	15,660	16,968	9,737	10,582	11,355	7,639
12	8,383	9,168	8,420	9,774	5,873	6,431	6,095	4,132

	Mathematics							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	124,576	99,076	94,992	81,862	63,967	63,540	59,383	56,239
3	137,608	122,418	110,414	89,187	68,278	69,025	65,400	63,751
4	147,360	135,886	119,617	92,526	68,400	71,072	64,538	65,625
5	136,906	130,741	119,222	94,281	65,521	65,617	59,029	58,977
6	119,047	109,178	100,572	79,128	55,600	54,702	45,084	48,398
7	74,869	79,275	71,824	50,758	36,621	36,628	30,745	35,799
8	60,801	66,102	54,702	39,299	28,667	30,685	25,057	28,139
9	28,587	32,582	26,974	24,296	18,132	20,712	19,283	17,055
10	12,192	15,310	11,663	12,283	7,545	7,890	8,538	8,124
11	5,270	6,063	6,234	6,133	3,300	3,520	3,652	2,990
12	2,195	3,163	3,303	3,402	1,862	1,881	1,853	1,274

Table E.4

Number of States Reporting Reading and Mathematics Achievement Information on an Annual Cycle -- 1979-80 to 1986-87

	Reading							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	44	42	43	40	37	40	40	44
3	43	40	42	40	39	40	42	44
4	43	42	42	40	38	40	43	44
5	43	40	42	40	38	40	43	44
6	44	41	42	39	39	40	43	44
7	42	40	41	39	38	40	42	44
8	41	40	42	39	38	40	42	44
9	34	32	37	27	30	38	38	38
10	33	28	30	27	29	36	38	36
11	26	25	30	23	26	34	34	32
12	22	22	26	22	25	32	30	27

	Mathematics							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	41	39	40	37	37	40	40	44
3	41	40	41	39	40	40	41	44
4	41	40	40	39	39	40	43	44
5	41	40	41	39	39	39	43	44
6	42	39	41	38	40	40	41	44
7	39	37	37	38	38	40	41	44
8	37	36	36	38	38	40	40	44
9	28	29	27	28	27	32	34	36
10	21	22	22	23	25	31	30	29
11	17	17	21	19	22	24	24	25
12	15	14	16	17	16	21	20	20

Table E.5

Number of States Reporting Reading and Mathematics Achievement Information on a Fall-Spring Cycle --
1979-80 to 1986-87

	Reading							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	51	49	50	48	44	46	45	48
3	49	49	49	47	43	46	45	48
4	49	49	48	47	43	46	45	48
5	49	49	48	47	43	46	45	48
6	51	48	49	48	44	46	45	48
7	48	49	49	47	42	46	44	48
8	47	48	47	47	42	46	43	48
9	47	48	47	45	41	45	43	45
10	48	47	46	46	41	43	43	45
11	44	46	46	44	37	41	42	44
12	41	45	45	43	35	40	41	42

	Mathematics							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	50	48	49	48	44	46	43	45
3	48	48	48	47	43	46	43	46
4	48	48	47	47	43	46	45	46
5	48	48	47	47	43	46	45	46
6	50	48	47	48	44	46	45	46
7	48	48	47	47	42	44	43	46
8	47	47	46	47	42	44	42	46
7	46	47	41	38	37	39	41	38
10	42	43	40	35	32	33	39	36
11	37	38	35	32	30	32	35	32
12	32	34	33	27	25	28	29	30

APPENDIX F

NATIONAL ACHIEVEMENT INFORMATION FOR 1979-80 TO 1986-87 EXPRESSED IN NORMAL CURVE EQUIVALENTS

This appendix provides achievement information expressed in normal curve equivalents (NCEs) for 1986-87 as well as for the eight-year period 1979-80 to 1986-87.

PERCENTILE RANKS AND NORMAL CURVE EQUIVALENTS

The achievement information in the body of the text is presented in percentile ranks. Percentile ranks indicate the percentage of students nationwide that obtained scores lower than that particular achievement level. A percentile rank of 50, for example, indicates the achievement level which 50 percent of all students scores below. Percentile ranks must be interpreted cautiously because they are not based on an equal-interval scale. This means that a child who increases achievement by 10 percentile points, from 45 to 55 for example, has not learned the same amount as a child who increases from 85 to 95. Percentile ranks cannot, therefore, be used for averaging student achievement gains since each point of gain does not represent the same amount of learning.

Another measure, which is derived from percentile rankings, the Normal Curve Equivalent (NCE), is an equal-interval scale. Therefore, any identical increase represents the same amount of increase, whether the increase came between 45 and 55 NCEs or between 85 and 95 NCEs.

Figure F.1 is a graphic depiction of the relationship between NCEs and percentile ranks.

Table F.1

Reading Achievement Results Expressed in NCEs for Chapter 1 Students Tested on an Annual Cycle -- 1986-87

Grade	Weighted Number Tested	Number of States Reporting	NCE		
			Pretest	Posttest	Gain
2	160,537	44	35.1	37.9	2.8
3	171,646	44	33.5	36.8	3.3
4	168,241	44	34.3	37.8	3.5
5	148,932	44	34.8	37.3	2.5
6	118,373	44	34.1	37.2	3.1
7	90,989	44	34.4	36.9	2.5
8	76,623	44	33.9	36.0	2.1
9	31,256	38	34.1	35.5	1.4
10	22,098	36	34.1	35.1	1.0
11	12,081	32	32.2	34.0	1.8
12	6,273	27	29.7	31.2	1.5

Table F.2

Mathematics Achievement Results Expressed in NCEs for Chapter 1 Students Tested on an Annual Cycle -- 1986-87

Grade	Weighted Number Tested	Number of States Reporting	NCE		
			Pretest	Posttest	Gain
2	84,661	44	37.8	43.8	6.0
3	98,170	44	36.6	40.8	4.2
4	105,905	44	36.3	41.0	4.7
5	100,402	44	36.9	41.0	4.1
6	77,758	44	36.8	40.8	4.0
7	61,112	44	37.1	40.1	3.0
8	54,364	44	36.5	39.0	2.5
9	20,982	36	38.6	41.3	2.7
10	14,590	29	38.3	40.2	1.9
11	8,195	25	39.1	41.2	2.1
12	3,587	20	36.4	38.8	2.4

Table F.3

Reading Achievement NCE Gain Scores for Chapter 1 Students Tested on an Annual Cycle -- 1979-80 to 1986-87

	NCE Gain Score							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	1.0	1.3	1.2	0.9	1.0	1.5	1.1	2.8
3	2.4	3.2	2.2	2.8	3.0	2.6	2.8	3.3
4	1.9	3.1	2.7	2.6	2.9	3.5	3.1	3.5
5	2.3	3.2	3.3	3.2	3.1	3.8	3.1	2.5
6	3.2	4.0	3.4	3.4	3.2	3.5	3.5	3.1
7	1.9	2.1	2.4	2.2	2.5	4.0	2.6	2.5
8	2.2	3.0	3.1	3.1	2.4	2.5	2.6	2.1
9	1.9	2.2	2.4	2.7	1.6	1.5	2.4	1.4
10	-0.6	1.4	0.8	1.5	1.1	1.5	1.3	1.0
11	-2.0	2.4	0.5	-0.6	0.3	1.7	1.8	1.8
12	1.5	0.3	1.7	-0.3	0.3	0.0	-0.3	1.5

Table F.4

Mathematics Achievement NCE Gain Scores for Chapter 1 Students Tested on an Annual Cycle -- 1979-80 to 1986-87

	NCE Gain Score							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	1.2	2.6	3.3	1.7	3.2	4.0	5.2	6.0
3	0.5	2.1	3.3	2.4	3.2	2.5	3.6	4.2
4	1.8	3.3	2.7	2.7	3.1	3.3	3.9	4.7
5	2.5	2.7	3.7	4.5	4.4	4.3	5.3	4.1
6	3.9	4.7	4.3	4.9	4.0	3.5	4.0	4.0
7	2.2	1.8	3.0	4.4	3.5	4.0	3.7	3.0
8	2.9	3.1	3.3	3.6	3.1	2.8	2.4	2.5
9	0.9	0.8	1.3	2.2	0.7	0.7	1.3	2.7
10	-1.0	0.7	0.3	1.4	0.5	1.4	1.9	1.9
11	0.8	1.3	0.5	0.8	1.1	2.3	2.2	2.1
12	1.2	-0.1	0.7	0.3	1.9	1.9	1.1	2.4

Table F.5

Reading Achievement Results Expressed in NCEs for Chapter 1 Students Tested on a Fall-Spring Cycle -- 1986-87

Grade	Weighted Number Tested	Number of States Reporting	NCE		
			Pretest	Posttest	Gain
2	173,553	47	32.7	42.2	9.5
3	150,805	47	32.5	40.5	8.0
4	128,105	47	32.9	40.1	7.2
5	110,020	47	32.7	39.0	6.3
6	88,804	47	32.7	39.2	6.5
7	59,204	47	31.6	37.2	5.6
8	47,894	47	31.4	36.5	5.1
9	30,437	44	30.3	34.8	4.5
10	15,309	44	30.2	34.6	4.4
11	7,650	43	29.2	33.6	4.4
12	4,135	41	28.4	32.7	4.3

Table F.6

Mathematics Achievement Results Expressed in NCEs for Chapter 1 Students Tested on a Fall-Spring Cycle -- 1986-87

Grade	Weighted Number Tested	Number of States Reporting	NCE		
			Pretest	Posttest	Gain
2	56,239	45	33.3	45.9	12.6
3	63,751	46	32.6	43.7	11.1
4	65,625	46	33.0	43.0	10.0
5	58,977	46	33.5	42.1	8.6
6	48,398	46	33.4	42.0	8.6
7	35,799	46	33.5	39.7	6.2
8	28,139	46	33.9	39.4	5.5
9	17,055	38	32.7	38.9	6.2
10	8,124	36	35.5	41.1	5.6
11	2,990	32	32.5	37.2	4.7
12	1,274	30	31.0	36.4	5.4

Table F.7

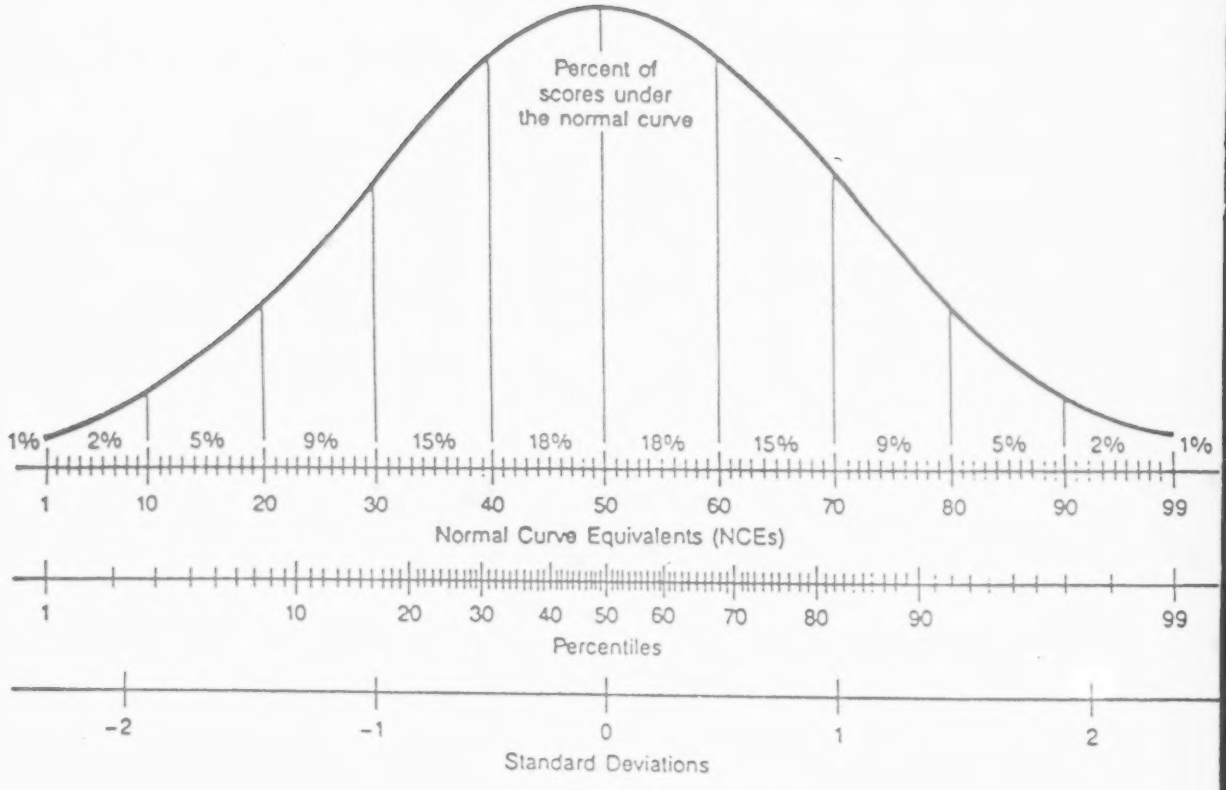
Reading Achievement NCE Gain Scores for Chapter 1 Students Tested on a Fall-Spring Cycle -- 1979-80 to 1986-87

	NCE Gain Score							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	9.4	8.9	8.5	9.6	9.9	9.3	9.8	9.5
3	7.4	7.1	6.7	7.7	8.2	7.9	8.2	8.0
4	7.0	6.9	6.3	6.9	7.5	7.3	7.6	7.2
5	6.1	6.2	6.3	6.2	6.7	6.5	6.6	6.3
6	6.0	5.8	5.7	5.9	6.3	6.2	6.6	6.5
7	5.5	4.7	4.8	5.1	5.6	5.5	5.8	5.6
8	5.0	4.4	4.6	4.8	5.1	5.2	5.7	5.1
9	5.2	5.1	4.5	5.0	5.3	4.9	4.6	4.5
10	4.2	4.6	4.0	4.3	4.5	3.9	4.2	4.4
11	3.2	4.1	3.6	3.2	4.1	3.3	3.9	4.4
12	4.4	4.4	4.8	2.4	4.6	3.8	3.5	4.3

Table F.8

Mathematics Achievement NCE Gain Scores for Chapter 1 Students Tested on a Fall-Spring Cycle -- 1979-80 to 1986-87

	NCE Gain Score							
Grade	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87
2	10.5	11.0	11.7	11.4	12.9	13.2	13.6	12.6
3	8.6	8.8	8.8	9.8	10.8	11.1	11.8	11.1
4	9.0	9.2	9.8	9.4	10.3	10.5	11.2	10.0
5	8.2	8.4	8.2	8.1	8.8	8.7	9.7	8.6
6	7.7	7.2	8.0	7.8	8.4	8.4	8.9	8.6
7	6.3	5.9	5.8	5.9	6.3	6.4	6.8	6.2
8	6.2	5.6	5.6	5.5	6.0	5.7	5.8	5.5
9	6.2	6.4	7.1	5.9	7.2	7.1	6.8	6.2
10	5.3	5.5	5.1	3.5	4.2	3.8	4.8	5.6
11	5.6	5.1	5.6	4.5	5.9	5.2	4.8	4.7
12	6.5	3.8	5.0	4.5	4.5	5.4	3.6	5.4

Figure F.1

Relationship of NCEs and Percentiles